

Highway Lighting at Thikri Anjad, MP-Toll Plaza

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 30.12.2019
Operator: MADAN HEGDE



Halonix Technologies Private Limited

B-404,KEMP PLAZA,OFF LINK ROAD, NEAR MIND SPACE,MALAD
WEST
MUMBAI-400064

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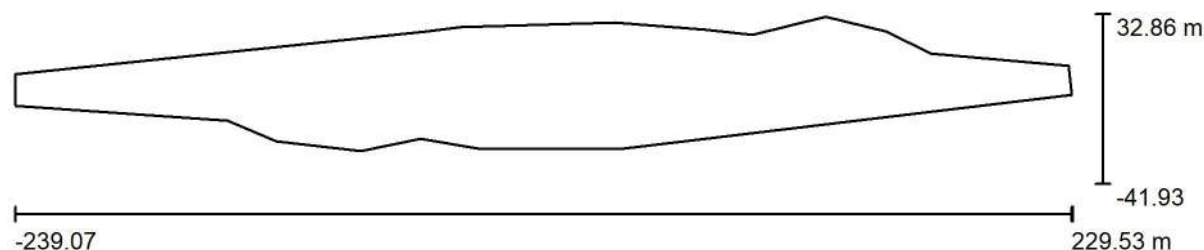


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TOLL PLAZA- / Planning data



Light loss factor: 0.85, ULR (Upward Light Ratio): 7.5%

Scale 1:3351

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	70	Halonix 80W LED Canopy Light CWL (1.000)	8129	9000	80.0
2	96	HALONIX 250W LED FLOOD LIGHT CWL (1.000)	30100	30100	250.0

Total: 3458612 Total: 3519600 29600.0

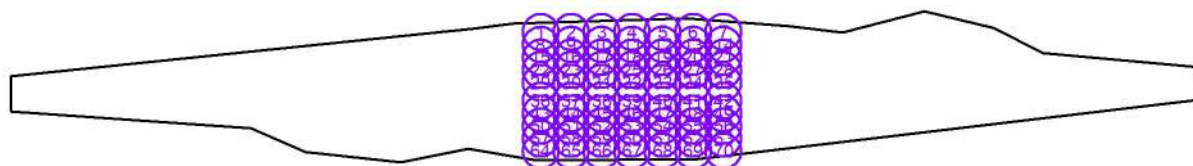
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TOLL PLAZA- / Luminaires (coordinates list)**Halonix 80W LED Canopy Light CWL**

8129 lm, 80.0 W, 1 x 1 x User defined (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-30.682	23.641	6.000	0.0	0.0	90.0
2	-18.684	23.641	6.000	0.0	0.0	90.0
3	-6.687	23.641	6.000	0.0	0.0	90.0
4	5.311	23.641	6.000	0.0	0.0	90.0
5	17.309	23.641	6.000	0.0	0.0	90.0
6	29.306	23.641	6.000	0.0	0.0	90.0
7	41.304	23.641	6.000	0.0	0.0	90.0
8	-30.682	18.683	6.000	0.0	0.0	90.0
9	-18.684	18.683	6.000	0.0	0.0	90.0
10	-6.687	18.683	6.000	0.0	0.0	90.0
11	5.311	18.683	6.000	0.0	0.0	90.0
12	17.309	18.683	6.000	0.0	0.0	90.0
13	29.306	18.683	6.000	0.0	0.0	90.0
14	41.304	18.683	6.000	0.0	0.0	90.0
15	-30.682	13.726	6.000	0.0	0.0	90.0
16	-18.684	13.726	6.000	0.0	0.0	90.0
17	-6.687	13.726	6.000	0.0	0.0	90.0
18	5.311	13.726	6.000	0.0	0.0	90.0
19	17.309	13.726	6.000	0.0	0.0	90.0
20	29.306	13.726	6.000	0.0	0.0	90.0
21	41.304	13.726	6.000	0.0	0.0	90.0
22	-30.682	8.768	6.000	0.0	0.0	90.0
23	-18.684	8.768	6.000	0.0	0.0	90.0
24	-6.687	8.768	6.000	0.0	0.0	90.0
25	5.311	8.768	6.000	0.0	0.0	90.0
26	17.309	8.768	6.000	0.0	0.0	90.0
27	29.306	8.768	6.000	0.0	0.0	90.0
28	41.304	8.768	6.000	0.0	0.0	90.0

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No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	-30.682	3.811	6.000	0.0	0.0	90.0
30	-18.684	3.811	6.000	0.0	0.0	90.0
31	-6.687	3.811	6.000	0.0	0.0	90.0
32	5.311	3.811	6.000	0.0	0.0	90.0
33	17.309	3.811	6.000	0.0	0.0	90.0
34	29.306	3.811	6.000	0.0	0.0	90.0
35	41.304	3.811	6.000	0.0	0.0	90.0
36	-30.682	-3.324	6.000	0.0	0.0	90.0
37	-18.684	-3.324	6.000	0.0	0.0	90.0
38	-6.687	-3.324	6.000	0.0	0.0	90.0
39	5.311	-3.324	6.000	0.0	0.0	90.0
40	17.309	-3.324	6.000	0.0	0.0	90.0
41	29.306	-3.324	6.000	0.0	0.0	90.0
42	41.304	-3.324	6.000	0.0	0.0	90.0
43	-30.682	-8.282	6.000	0.0	0.0	90.0
44	-18.684	-8.282	6.000	0.0	0.0	90.0
45	-6.687	-8.282	6.000	0.0	0.0	90.0
46	5.311	-8.282	6.000	0.0	0.0	90.0
47	17.309	-8.282	6.000	0.0	0.0	90.0
48	29.306	-8.282	6.000	0.0	0.0	90.0
49	41.304	-8.282	6.000	0.0	0.0	90.0
50	-30.682	-13.239	6.000	0.0	0.0	90.0
51	-18.684	-13.239	6.000	0.0	0.0	90.0
52	-6.687	-13.239	6.000	0.0	0.0	90.0
53	5.311	-13.239	6.000	0.0	0.0	90.0
54	17.309	-13.239	6.000	0.0	0.0	90.0
55	29.306	-13.239	6.000	0.0	0.0	90.0
56	41.304	-13.239	6.000	0.0	0.0	90.0
57	-30.682	-18.197	6.000	0.0	0.0	90.0
58	-18.684	-18.197	6.000	0.0	0.0	90.0
59	-6.687	-18.197	6.000	0.0	0.0	90.0
60	5.311	-18.197	6.000	0.0	0.0	90.0
61	17.309	-18.197	6.000	0.0	0.0	90.0
62	29.306	-18.197	6.000	0.0	0.0	90.0
63	41.304	-18.197	6.000	0.0	0.0	90.0
64	-30.682	-23.155	6.000	0.0	0.0	90.0
65	-18.684	-23.155	6.000	0.0	0.0	90.0
66	-6.687	-23.155	6.000	0.0	0.0	90.0



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TOLL PLAZA- / Luminaires (coordinates list)

No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
67	5.311	-23.155	6.000	0.0	0.0	90.0
68	17.309	-23.155	6.000	0.0	0.0	90.0
69	29.306	-23.155	6.000	0.0	0.0	90.0
70	41.304	-23.155	6.000	0.0	0.0	90.0

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TOLL PLAZA- / Luminaires (coordinates list)

HALONIX 250W LED FLOOD LIGHT CWL

30100 lm, 250.0 W, 1 x 1 x User defined (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	154.250	-12.115	30.000	71.3	0.0	68.1
2	154.250	-12.115	30.000	47.4	0.0	27.6
3	154.250	-12.115	30.000	59.5	0.0	-62.2
4	154.250	-12.115	30.000	55.5	0.0	43.9
5	154.250	-12.115	30.000	55.0	0.0	-54.4
6	154.250	-12.115	30.000	67.0	0.0	-73.2
7	154.250	-12.115	30.000	68.4	0.0	-77.5
8	154.250	-12.115	30.000	67.9	0.0	-81.3
9	154.250	-12.115	30.000	42.4	0.0	4.3
10	154.250	-12.115	30.000	44.9	0.0	-31.6
11	154.250	-12.115	30.000	71.5	0.0	85.1
12	154.250	-12.115	30.000	67.4	0.0	62.8
13	154.250	-12.115	30.000	64.4	0.0	-68.9
14	154.250	-12.115	30.000	71.3	0.0	91.9
15	154.250	-12.115	30.000	61.4	0.0	54.0
16	154.250	-12.115	30.000	71.6	0.0	74.6
17	93.052	22.539	30.000	62.6	0.0	-125.2
18	93.052	22.539	30.000	55.7	0.0	141.2
19	93.052	22.539	30.000	69.1	0.0	-108.9
20	93.052	22.539	30.000	43.3	0.0	100.6
21	93.052	22.539	30.000	70.6	0.0	-100.9
22	93.052	22.539	30.000	44.6	0.0	113.5
23	93.052	22.539	30.000	53.9	0.0	172.6
24	93.052	22.539	30.000	5.5	0.0	-123.0
25	93.052	22.539	30.000	57.4	0.0	154.2
26	93.052	22.539	30.000	52.4	0.0	-168.5
27	93.052	22.539	30.000	52.0	0.0	135.4
28	93.052	22.539	30.000	42.0	0.0	90.0

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No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	93.052	22.539	30.000	70.1	0.0	-104.4
30	93.052	22.539	30.000	60.2	0.0	-134.0
31	93.052	22.539	30.000	67.8	0.0	-114.1
32	93.052	22.539	30.000	47.5	0.0	124.5
33	162.838	16.413	30.000	56.4	0.0	-119.8
34	162.838	16.413	30.000	61.9	0.0	121.9
35	162.838	16.413	30.000	65.8	0.0	-101.7
36	162.838	16.413	30.000	41.8	0.0	169.4
37	162.838	16.413	30.000	40.7	0.0	-173.9
38	162.838	16.413	30.000	67.7	0.0	96.9
39	162.838	16.413	30.000	49.8	0.0	141.7
40	162.838	16.413	30.000	66.8	0.0	113.5
41	162.838	16.413	30.000	52.4	0.0	-126.1
42	162.838	16.413	30.000	43.9	0.0	-146.8
43	162.838	16.413	30.000	66.9	0.0	92.1
44	162.838	16.413	30.000	63.6	0.0	-109.7
45	162.838	16.413	30.000	45.6	0.0	153.1
46	162.838	16.413	30.000	49.3	0.0	-133.5
47	162.838	16.413	30.000	65.9	0.0	-97.8
48	162.838	16.413	30.000	67.3	0.0	104.5
49	-74.899	-22.075	30.000	48.2	0.0	-53.5
50	-74.899	-22.075	30.000	56.9	0.0	-14.6
51	-74.899	-22.075	30.000	43.0	0.0	-69.5
52	-74.899	-22.075	30.000	63.9	0.0	52.2
53	-74.899	-22.075	30.000	51.2	0.0	-42.6
54	-74.899	-22.075	30.000	55.8	0.0	6.8
55	-74.899	-22.075	30.000	60.8	0.0	45.6
56	-74.899	-22.075	30.000	58.0	0.0	35.0
57	-74.899	-22.075	30.000	34.5	0.0	-85.9
58	-74.899	-22.075	30.000	57.3	0.0	81.3
59	-74.899	-22.075	30.000	67.3	0.0	59.9
60	-74.899	-22.075	30.000	69.8	0.0	64.3
61	-74.899	-22.075	30.000	55.7	0.0	21.9
62	-74.899	-22.075	30.000	55.8	0.0	-35.6
63	-74.899	-22.075	30.000	56.1	0.0	74.6
64	-74.899	-22.075	30.000	59.1	0.0	-28.4
65	-182.663	-11.838	30.000	63.9	0.0	-83.1
66	-182.663	-11.838	30.000	40.9	0.0	42.1

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TOLL PLAZA- / Luminaires (coordinates list)

No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
67	-182.663	-11.838	30.000	64.0	0.0	-93.0
68	-182.663	-11.838	30.000	48.9	0.0	57.1
69	-182.663	-11.838	30.000	63.4	0.0	-74.0
70	-182.663	-11.838	30.000	49.1	0.0	-45.2
71	-182.663	-11.838	30.000	37.1	0.0	28.7
72	-182.663	-11.838	30.000	36.3	0.0	5.3
73	-182.663	-11.838	30.000	62.2	0.0	79.2
74	-182.663	-11.838	30.000	57.3	0.0	-64.8
75	-182.663	-11.838	30.000	58.3	0.0	69.3
76	-182.663	-11.838	30.000	61.9	0.0	73.6
77	-182.663	-11.838	30.000	42.5	0.0	-35.7
78	-182.663	-11.838	30.000	54.4	0.0	-53.8
79	-182.663	-11.838	30.000	61.9	0.0	82.2
80	-182.663	-11.838	30.000	38.6	0.0	-19.1
81	-144.167	15.242	30.000	72.7	0.0	-102.4
82	-144.167	15.242	30.000	66.4	0.0	109.4
83	-144.167	15.242	30.000	73.3	0.0	-107.1
84	-144.167	15.242	30.000	70.7	0.0	104.7
85	-144.167	15.242	30.000	71.9	0.0	-91.2
86	-144.167	15.242	30.000	73.5	0.0	-111.6
87	-144.167	15.242	30.000	60.6	0.0	-125.7
88	-144.167	15.242	30.000	52.4	0.0	134.9
89	-144.167	15.242	30.000	47.3	0.0	-158.0
90	-144.167	15.242	30.000	72.0	0.0	-87.2
91	-144.167	15.242	30.000	72.3	0.0	97.6
92	-144.167	15.242	30.000	45.6	0.0	167.5
93	-144.167	15.242	30.000	72.0	0.0	100.4
94	-144.167	15.242	30.000	67.3	0.0	-120.2
95	-144.167	15.242	30.000	56.5	0.0	-134.3
96	-144.167	15.242	30.000	72.2	0.0	-95.8

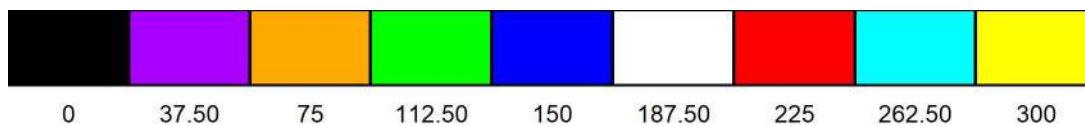
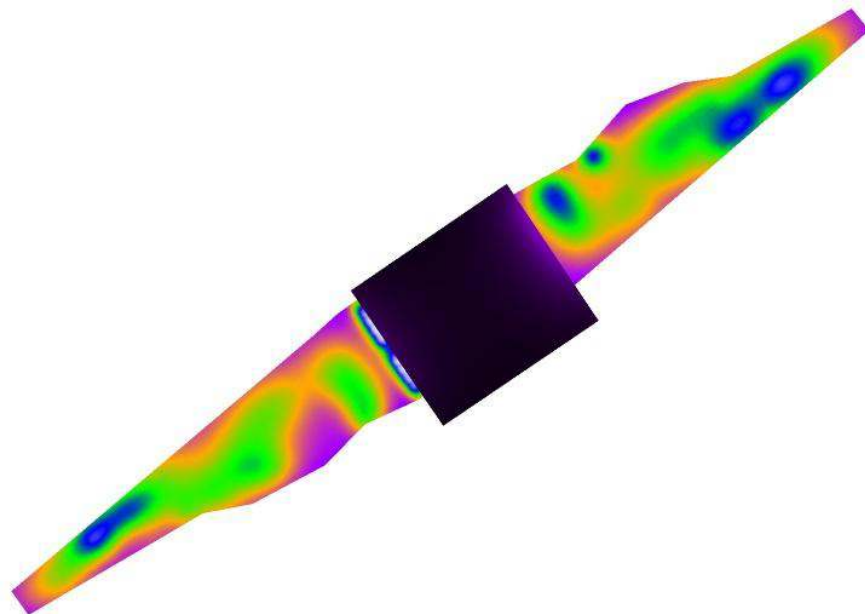


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TOLL PLAZA- / False Color Rendering

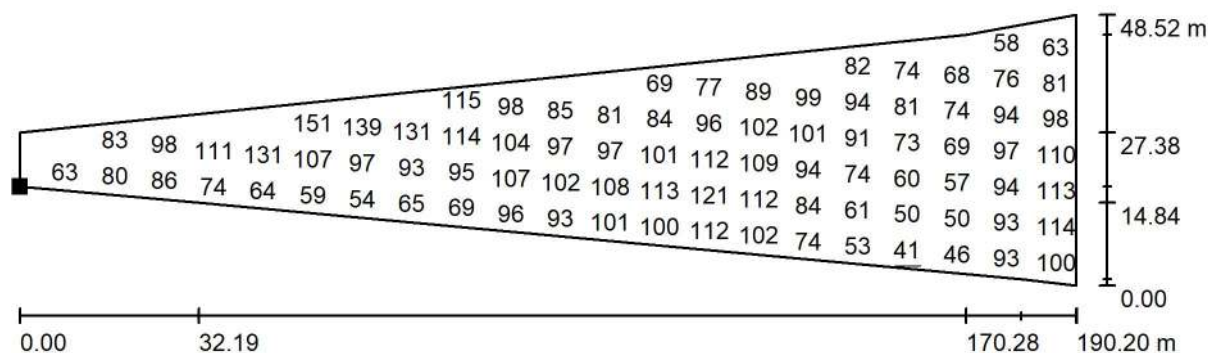


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TOLL PLAZA- / Calculation Surface LEFT SIDE / Value Chart (E, Perpendicular)

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-238.676 m, -5.520 m, 0.100 m)



Grid: 128 x 128 Points

E_{av} [lx]
89

E_{min} [lx]
40

E_{max} [lx]
161

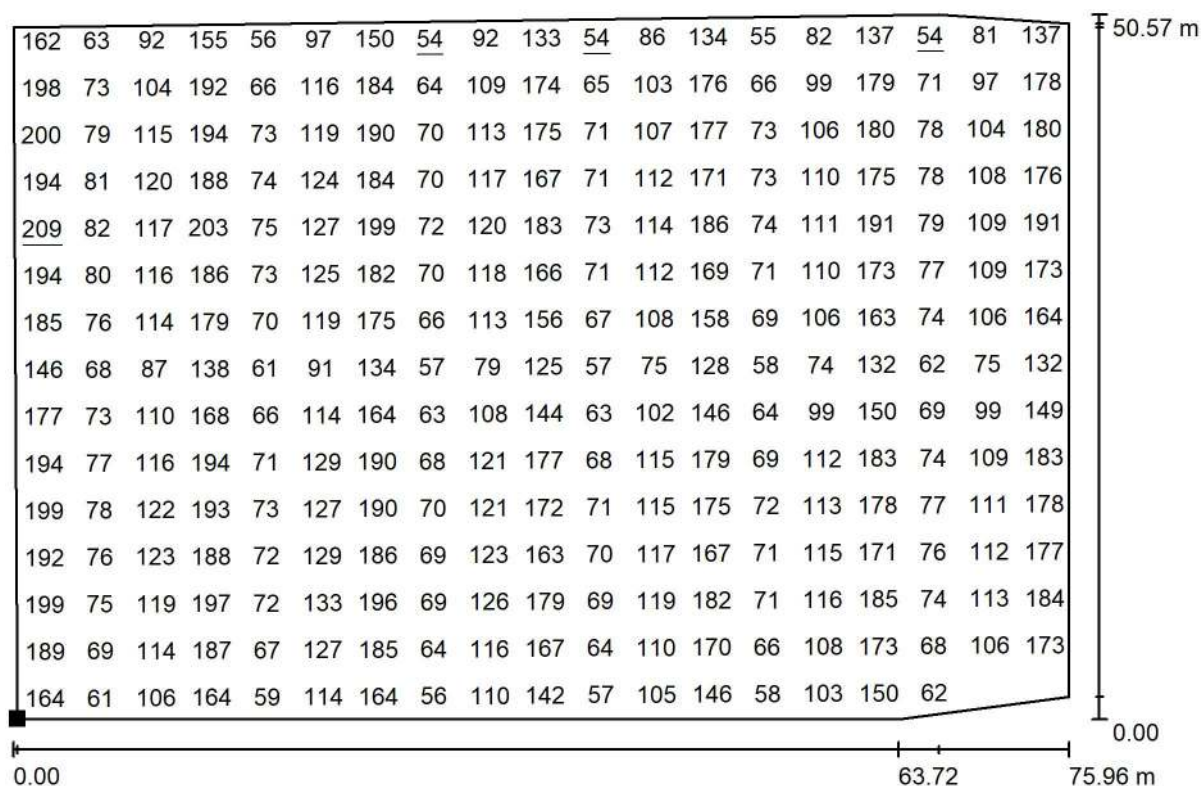
u_0
0.448

E_{min} / E_{max}
0.248

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TOLL PLAZA- / Calculation Surface MIDDLE SIDE / Value Chart (E, Perpendicular)

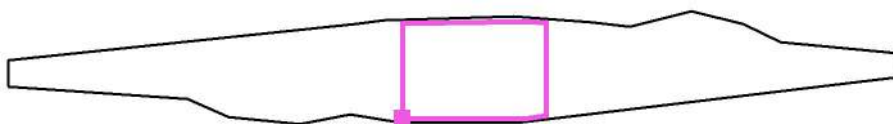
Values in Lux, Scale 1 : 544

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-31.686 m, -24.378 m, 0.760 m)



Grid: 15 x 19 Points

 E_{av} [lx]
120

 E_{min} [lx]
54

 E_{max} [lx]
209

 u_0
0.450

 E_{min} / E_{max}
0.259

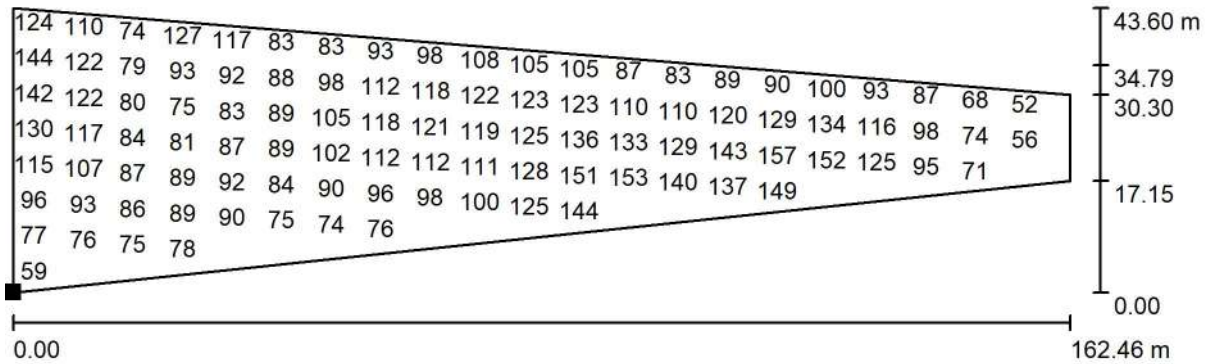


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TOLL PLAZA- / Calculation Surface RIGHT SIDE / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 1162

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(65.762 m, -19.997 m, 0.100 m)



Grid: 128 x 128 Points

E_{av} [lx]
102

E_{min} [lx]
42

E_{max} [lx]
161

u_0
0.407

E_{min} / E_{max}
0.259