



पश्चिम रेलवे  
Western Railway

# WESTERN RAILWAY

पश्चिम रेलवे

## GOVERNMENT OF INDIA MINISTRY OF RAILWAYS

भारत सरकार

रेल मंत्रालय

### SPECIFICATION FOR ENERGY EFFICIENT LED BASED LUMINAIRE FOR OUTDOOR & INDOOR APPLICATION (GENERAL SERVICES)

SPECIFICATION NO. WR/CCG/SPECIFICATION/P/001(REV-01) – 2018

Sr. No.	Date of Revision / Amendment	Revision / Amendment	Page no.	Remark
1	28.02.2018	<b>4.0 Construction :</b> Housing shall be made of 1.6mm or more thick sheet Steel conforming to IS: 513 (Grade O) or aluminum die cast having high conductivity preferably to grade 5000 or similar to high conductivity heat sink material for outdoor fittings and 1 mm or more thick sheet Steel conforming to IS: 513 (Grade O) for indoor fittings.	2	Suggested by Divns
2		<b>4.1 k) Load regulation <math>\pm 5\%</math> (deleted)</b>	2	
3		<b>7.1 Technical requirements -</b> housing shall be made of 1.6mm or more thick sheet steel conforming to IS:513 (Grade-O) or aluminum die cast having high conductivity preferably to grade 5000 or similar to high conductivity heat sink material for outdoor fittings and 1 mm or more thick sheet Steel conforming to IS: 513 (Grade O) for indoor fittings.	4	
4		<b>8.2 Type Test -</b> All the tests mentioned in the specifications should be carried out by NABL accredited lab by the manufacturer and be submitted to the inspecting agency. The inspecting agency should inspect the material based upon the same. However, no test certificate should be more than 3 years old.	7	Simplified
5		<b>9.0 (vi) Over Voltage Protection -</b> The outdoor luminaire shall withstand at 415 V AC for two minutes.	8	Suggested by Divns
6		<b>9.0 (vii) Surge Protection</b> It shall withstand a surge of 1.5kV $\pm 3\%$ for 50 microsecond's $\pm 20\%$ at the input terminals for all types and shall resume normal working when nominal voltage is applied again. (Tests shall comply with Clause 5.4 of latest IEC 60571-1).	8	

Revision suggested by Sr.DEE-ADI, Sr. DEE-P - BRC	Checked by  (Shakeel Ahmed) SEE(C&C)
Revised by  (P. S. Nagar) SSE/P/HQ	Approved by  (Sanjay Agarwal) Chief Electrical Services Engineer