

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263189

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-70-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4285.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

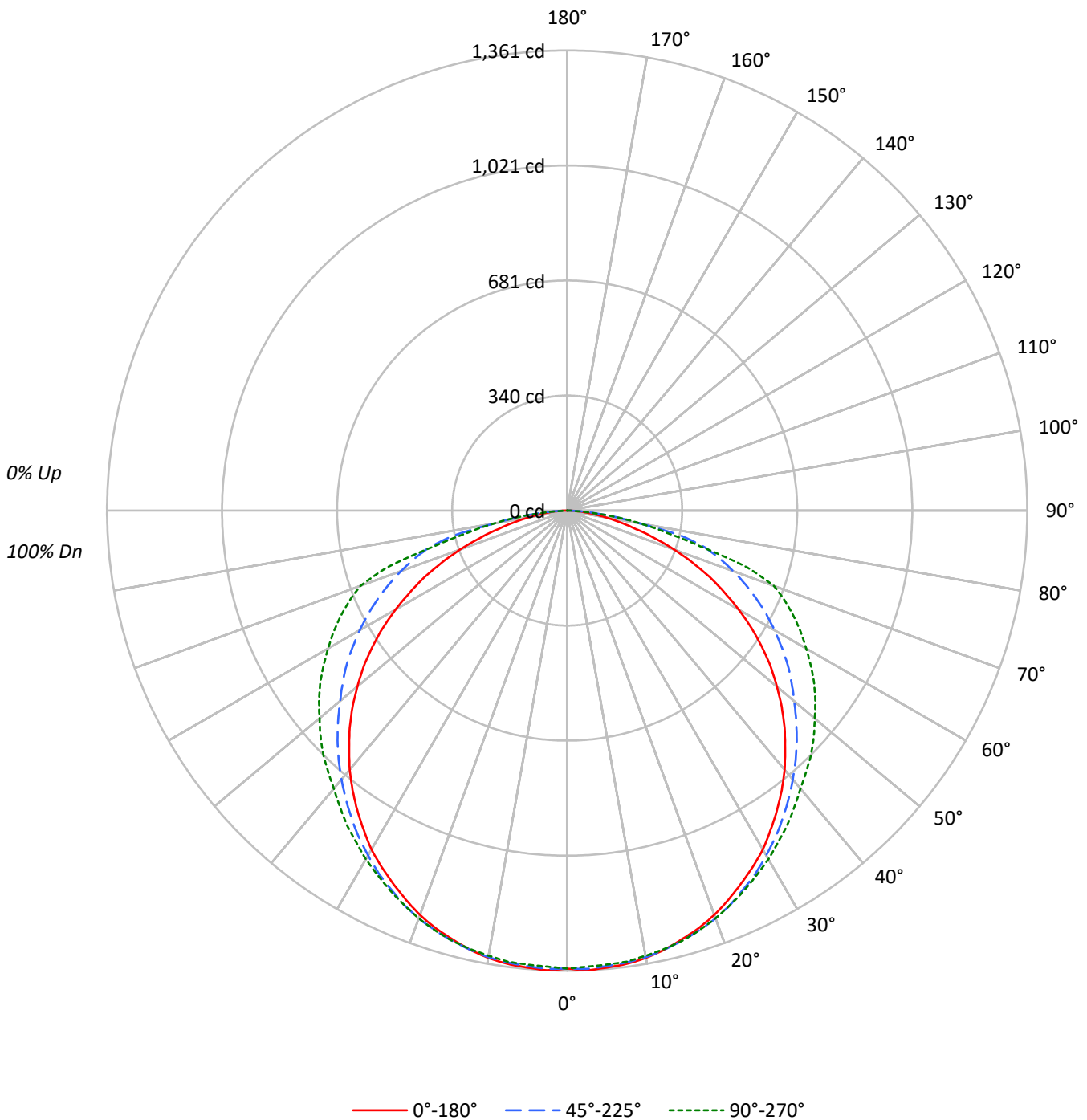
Input Watts (W): 55.056186
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1823	1823	1823
5°	1833	1827	1821
10°	1836	1833	1827
15°	1828	1834	1834
20°	1822	1838	1838
25°	1807	1833	1840
30°	1798	1829	1850
35°	1778	1825	1865
40°	1757	1823	1886
45°	1731	1828	1942
50°	1696	1835	2002
55°	1651	1869	2092
60°	1578	1906	2198
65°	1480	1966	2354
70°	1323	2055	2560
75°	1093	2197	2117
80°	892	1698	1715
85°	718	1127	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.0
10°-20°	371.2	8.7
20°-30°	567.4	13.2
30°-40°	693.9	16.2
40°-50°	742.5	17.3
50°-60°	711.0	16.6
60°-70°	601.4	14.0
70°-80°	381.2	8.9
80°-90°	87.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1067.2	24.9
0°-40°	1761.2	41.1
0°-60°	3214.6	75.0
0°-90°	4285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1357	1350	1352	1350	1348	129
15°	1312	1310	1317	1317	1317	371
25°	1217	1217	1235	1240	1240	562
35°	1082	1089	1111	1127	1135	677
45°	910	925	961	1000	1020	701
55°	704	726	797	863	892	628
65°	465	509	618	702	739	458
75°	210	297	423	420	407	229
85°	46	71	73	66	69	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1361.2	1354.6	1356.8	1354.6	1350.1
5°	1356.8	1350.1	1352.4	1350.1	1347.9
7.5°	1352.4	1345.7	1347.9	1345.7	1345.7
10°	1343.5	1336.9	1341.3	1339.1	1336.9
12.5°	1330.2	1325.8	1330.2	1328.0	1328.0
15°	1312.5	1310.3	1316.9	1316.9	1316.9
17.5°	1294.8	1292.6	1301.5	1301.5	1301.5
20°	1272.7	1270.5	1283.7	1283.7	1283.7
22.5°	1246.1	1243.9	1261.6	1261.6	1261.6
25°	1217.3	1217.3	1235.0	1239.5	1239.5
27.5°	1188.6	1188.6	1208.5	1215.1	1215.1
30°	1157.6	1157.6	1177.5	1186.4	1190.8
32.5°	1120.0	1124.4	1146.5	1157.6	1162.0
35°	1082.3	1089.0	1111.1	1126.6	1135.4
37.5°	1042.5	1049.1	1075.7	1093.4	1104.5
40°	1000.4	1009.3	1038.1	1060.2	1073.5
42.5°	954.0	967.2	1000.4	1029.2	1046.9
45°	909.7	925.2	960.6	1000.4	1020.4
47.5°	861.0	878.7	918.5	969.4	989.4
50°	810.1	827.8	876.5	934.0	956.2
52.5°	759.2	779.1	836.6	898.6	925.2
55°	703.8	726.0	796.8	863.2	892.0
57.5°	646.3	672.9	752.5	823.4	854.4
60°	586.5	619.7	708.3	783.5	816.7
62.5°	524.6	564.4	664.0	743.7	779.1
65°	464.8	509.1	617.5	701.6	739.3
67.5°	400.6	456.0	571.0	661.8	697.2
70°	336.4	400.6	522.4	615.3	650.7
72.5°	272.2	349.7	473.7	557.8	557.8
75°	210.3	296.6	422.7	420.5	407.3
77.5°	159.4	247.9	347.5	296.6	298.8
80°	115.1	199.2	219.1	219.1	221.3
82.5°	77.5	152.7	141.7	139.4	143.9
85°	46.5	70.8	73.0	66.4	68.6
87.5°	22.1	24.3	19.9	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)