

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: P263705

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4168.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

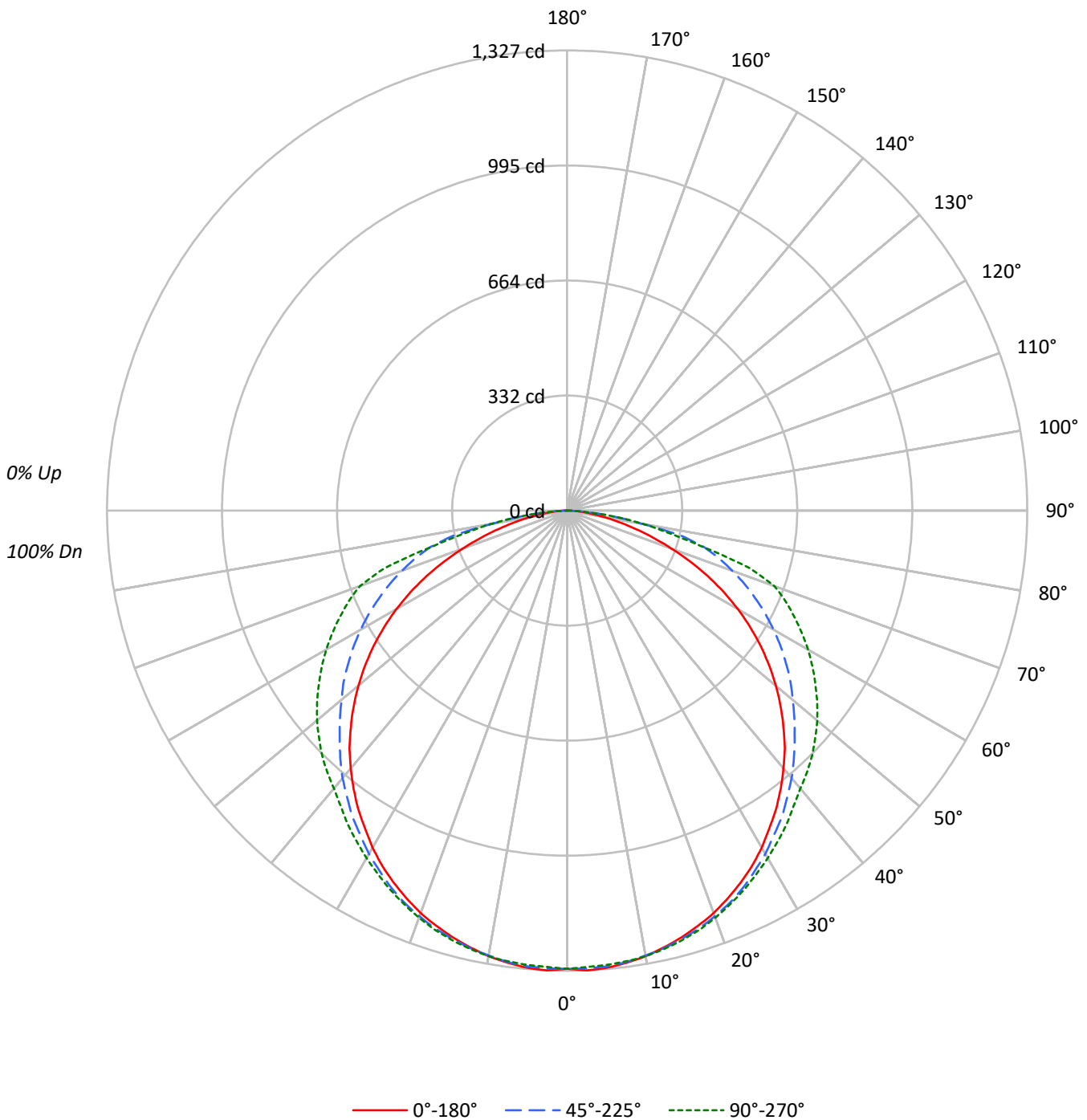
Input Watts (W): 48.918
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1778	1778	1778
5°	1787	1782	1776
10°	1783	1780	1783
15°	1775	1780	1786
20°	1768	1783	1789
25°	1757	1782	1791
30°	1744	1775	1798
35°	1725	1773	1813
40°	1705	1769	1838
45°	1679	1765	1901
50°	1645	1778	1971
55°	1598	1810	2050
60°	1529	1850	2159
65°	1424	1907	2299
70°	1259	1994	2502
75°	1056	2133	2101
80°	842	1685	1749
85°	665	1141	1045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.0
10°-20°	360.7	8.7
20°-30°	550.9	13.2
30°-40°	673.5	16.2
40°-50°	720.9	17.3
50°-60°	691.5	16.6
60°-70°	583.9	14.0
70°-80°	373.1	9.0
80°-90°	88.3	2.1
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°	1036.9	24.9
0°-40°	1710.4	41.0
0°-60°	3122.8	74.9
0°-90°	4168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1323	1315	1319	1317	1315	126
15°	1274	1270	1278	1282	1282	360
25°	1184	1182	1200	1204	1206	546
35°	1050	1059	1079	1094	1104	657
45°	882	897	927	970	999	680
55°	681	704	771	841	874	608
65°	447	490	599	683	722	441
75°	203	289	410	418	404	219
85°	43	72	74	72	68	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.3	1321.3	1321.3	1321.3	1321.3
2.5°	1327.4	1319.2	1321.3	1321.3	1317.2
5°	1323.3	1315.1	1319.2	1317.2	1315.1
7.5°	1315.1	1309.0	1313.1	1313.1	1311.0
10°	1304.9	1298.7	1302.8	1304.9	1304.9
12.5°	1290.5	1286.4	1292.6	1292.6	1294.6
15°	1274.1	1270.0	1278.2	1282.3	1282.3
17.5°	1255.6	1253.6	1263.8	1265.9	1267.9
20°	1235.1	1233.1	1245.4	1245.4	1249.5
22.5°	1210.5	1208.4	1224.9	1224.9	1229.0
25°	1183.8	1181.8	1200.2	1204.3	1206.4
27.5°	1155.1	1153.1	1171.5	1177.7	1181.8
30°	1122.3	1122.3	1142.8	1151.0	1157.2
32.5°	1085.3	1091.5	1110.0	1122.3	1130.5
35°	1050.5	1058.7	1079.2	1093.6	1103.8
37.5°	1011.5	1019.7	1042.3	1060.7	1073.0
40°	970.5	980.7	1007.4	1027.9	1046.4
42.5°	929.4	939.7	968.4	999.2	1023.8
45°	882.2	896.6	927.4	970.5	999.2
47.5°	835.0	849.4	888.4	941.7	970.5
50°	785.8	802.2	849.4	911.0	941.7
52.5°	734.5	753.0	812.5	878.1	908.9
55°	681.2	703.7	771.4	841.2	874.0
57.5°	625.8	650.4	730.4	804.3	839.1
60°	568.3	599.1	687.3	765.3	802.2
62.5°	508.8	545.8	644.2	724.2	763.2
65°	447.3	490.4	599.1	683.2	722.2
67.5°	383.7	441.1	554.0	642.2	681.2
70°	320.1	387.8	506.8	597.0	636.0
72.5°	260.6	338.5	459.6	543.7	551.9
75°	203.1	289.3	410.3	418.5	404.2
77.5°	151.8	240.0	338.5	301.6	299.5
80°	108.7	192.9	217.5	223.6	225.7
82.5°	71.8	145.7	141.6	145.7	143.6
85°	43.1	71.8	73.9	71.8	67.7
87.5°	20.5	26.7	20.5	18.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)