

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: P263853

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263853
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-LD5-70-RDP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4440.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

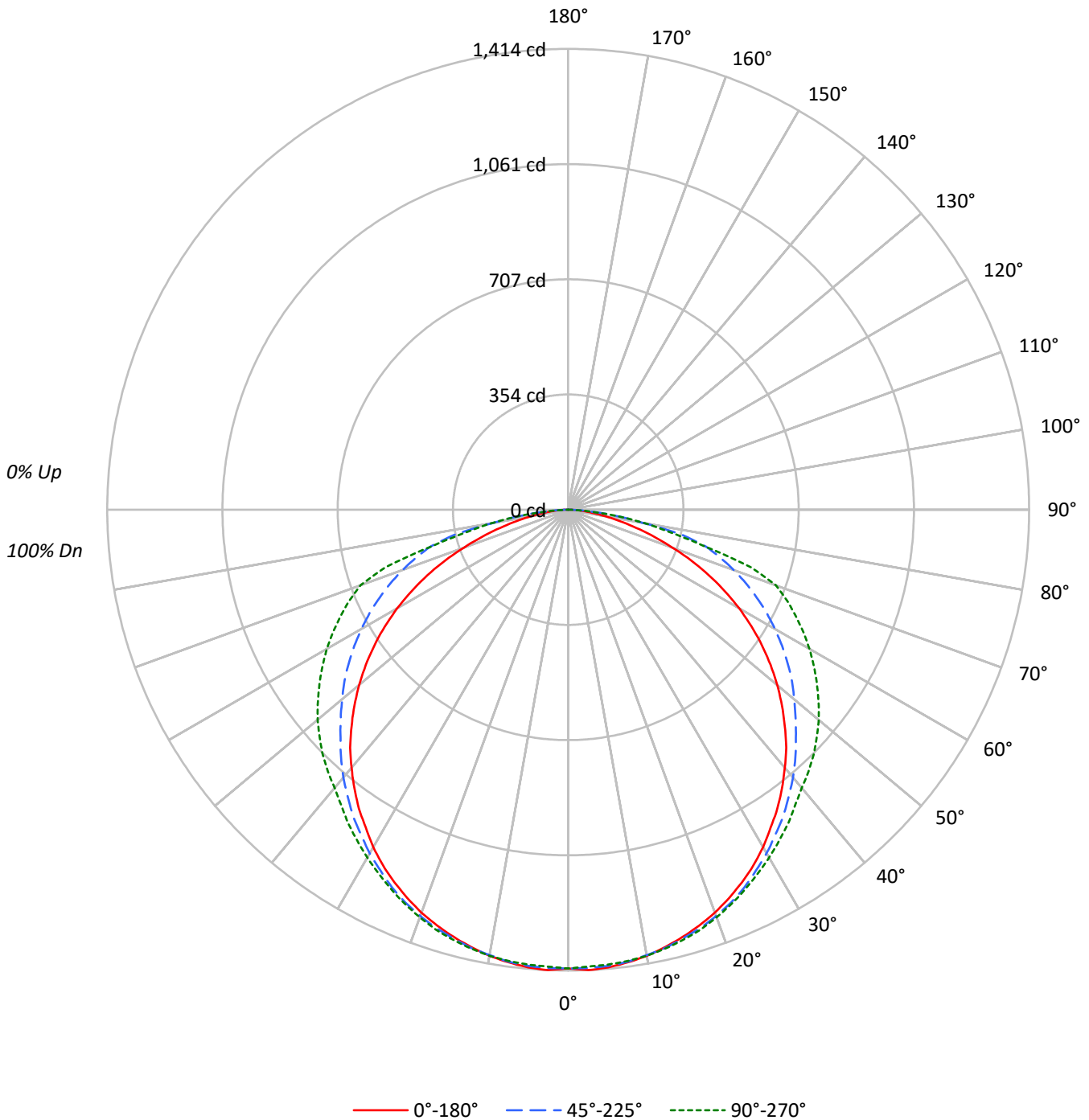
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	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°	1894	1894	1894
5°	1904	1898	1892
10°	1899	1896	1899
15°	1891	1897	1903
20°	1884	1900	1906
25°	1872	1898	1908
30°	1857	1891	1915
35°	1838	1888	1931
40°	1816	1885	1958
45°	1788	1880	2025
50°	1752	1894	2100
55°	1702	1928	2184
60°	1629	1970	2300
65°	1517	2032	2449
70°	1341	2124	2665
75°	1125	2272	2239
80°	897	1795	1863
85°	709	1215	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.0
10°-20°	384.2	8.7
20°-30°	586.8	13.2
30°-40°	717.4	16.2
40°-50°	768.0	17.3
50°-60°	736.6	16.6
60°-70°	622.0	14.0
70°-80°	397.5	9.0
80°-90°	94.0	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°	1104.5	24.9
0°-40°	1822.0	41.0
0°-60°	3326.6	74.9
0°-90°	4440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1410	1401	1405	1403	1401	134
15°	1357	1353	1362	1366	1366	383
25°	1261	1259	1279	1283	1285	581
35°	1119	1128	1150	1165	1176	700
45°	940	955	988	1034	1064	725
55°	726	750	822	896	931	648
65°	476	522	638	728	769	470
75°	216	308	437	446	431	233
85°	46	76	79	76	72	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.5	1407.5	1407.5	1407.5	1407.5
2.5°	1414.1	1405.3	1407.5	1407.5	1403.1
5°	1409.7	1401.0	1405.3	1403.1	1401.0
7.5°	1401.0	1394.4	1398.8	1398.8	1396.6
10°	1390.0	1383.5	1387.8	1390.0	1390.0
12.5°	1374.7	1370.4	1376.9	1376.9	1379.1
15°	1357.2	1352.9	1361.6	1366.0	1366.0
17.5°	1337.6	1335.4	1346.3	1348.5	1350.7
20°	1315.7	1313.5	1326.7	1326.7	1331.0
22.5°	1289.5	1287.3	1304.8	1304.8	1309.2
25°	1261.1	1258.9	1278.6	1282.9	1285.1
27.5°	1230.5	1228.3	1248.0	1254.5	1258.9
30°	1195.5	1195.5	1217.4	1226.1	1232.7
32.5°	1156.2	1162.7	1182.4	1195.5	1204.3
35°	1119.0	1127.8	1149.6	1164.9	1175.8
37.5°	1077.5	1086.2	1110.3	1129.9	1143.1
40°	1033.8	1044.7	1073.1	1095.0	1114.6
42.5°	990.1	1001.0	1031.6	1064.4	1090.6
45°	939.8	955.1	987.9	1033.8	1064.4
47.5°	889.5	904.8	946.4	1003.2	1033.8
50°	837.1	854.6	904.8	970.4	1003.2
52.5°	782.4	802.1	865.5	935.4	968.2
55°	725.6	749.7	821.8	896.1	931.1
57.5°	666.6	692.8	778.1	856.7	893.9
60°	605.4	638.2	732.2	815.2	854.6
62.5°	542.0	581.4	686.3	771.5	813.0
65°	476.5	522.4	638.2	727.8	769.3
67.5°	408.7	469.9	590.1	684.1	725.6
70°	341.0	413.1	539.8	636.0	677.5
72.5°	277.6	360.6	489.6	579.2	587.9
75°	216.4	308.2	437.1	445.9	430.6
77.5°	161.7	255.7	360.6	321.3	319.1
80°	115.8	205.4	231.7	238.2	240.4
82.5°	76.5	155.2	150.8	155.2	153.0
85°	45.9	76.5	78.7	76.5	72.1
87.5°	21.9	28.4	21.9	19.7	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)