

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: P263859

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263859  
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-LD5-75-RDP-UNV-L92765-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4269.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 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

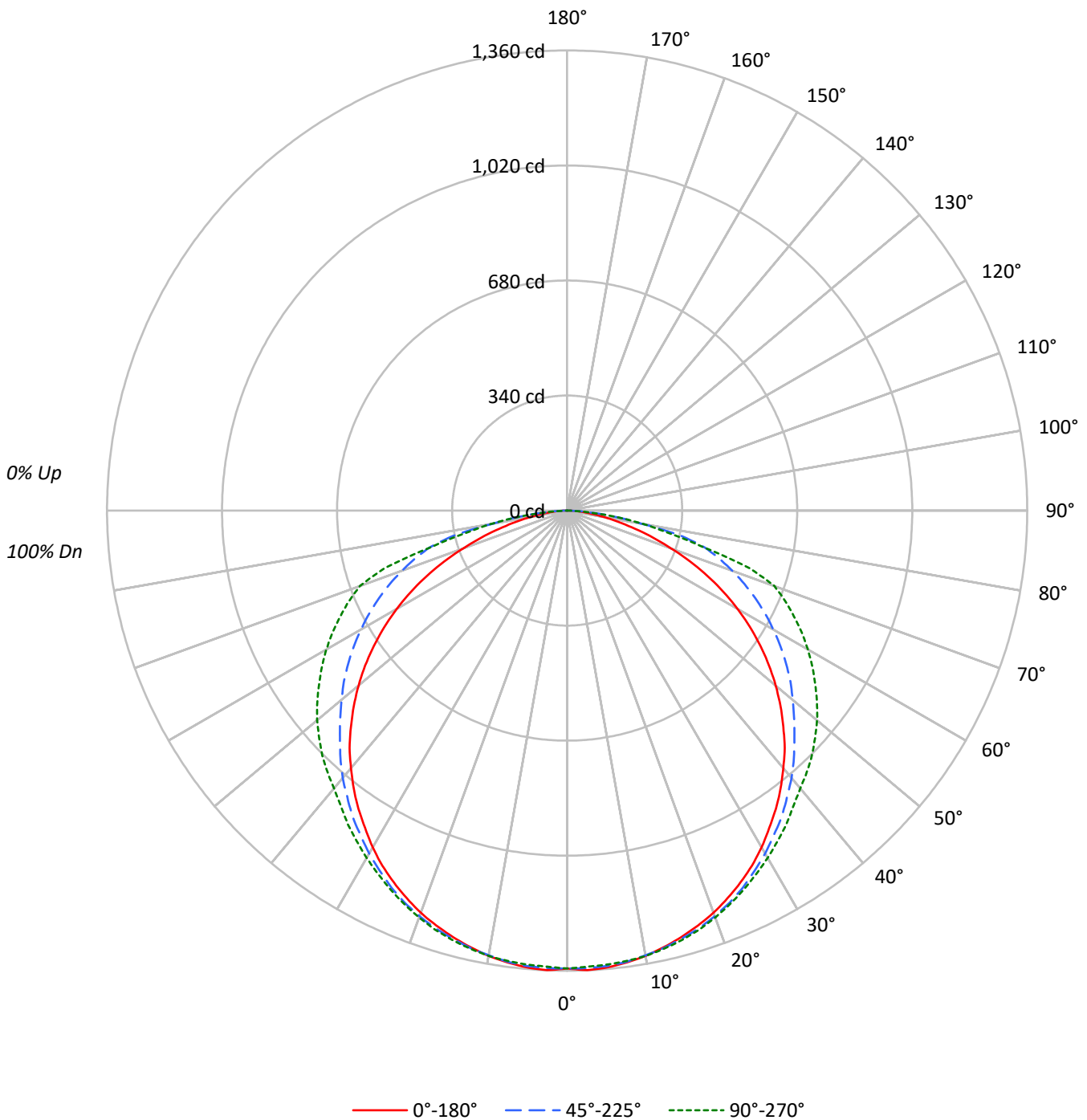
Input Watts (W): 57.846  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1821	1821	1821
5°	1831	1825	1819
10°	1826	1823	1826
15°	1818	1824	1830
20°	1811	1826	1832
25°	1800	1825	1834
30°	1786	1819	1841
35°	1767	1815	1857
40°	1746	1812	1882
45°	1719	1807	1947
50°	1685	1821	2019
55°	1637	1853	2100
60°	1566	1894	2211
65°	1458	1954	2355
70°	1290	2042	2563
75°	1081	2185	2152
80°	863	1726	1791
85°	681	1169	1070



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	3.0
10°-20°	369.4	8.7
20°-30°	564.2	13.2
30°-40°	689.8	16.2
40°-50°	738.4	17.3
50°-60°	708.2	16.6
60°-70°	598.0	14.0
70°-80°	382.2	9.0
80°-90°	90.4	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°	1062.0	24.9
0°-40°	1751.8	41.0
0°-60°	3198.4	74.9
0°-90°	4269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1353	1353	1353	1353	1353	
5°	1355	1347	1351	1349	1347	129
15°	1305	1301	1309	1313	1313	368
25°	1212	1210	1229	1234	1236	559
35°	1076	1084	1105	1120	1131	673
45°	904	918	950	994	1023	697
55°	698	721	790	862	895	623
65°	458	502	614	700	740	452
75°	208	296	420	429	414	224
85°	44	74	76	74	69	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1353.3	1353.3	1353.3	1353.3	1353.3
2.5°	1359.6	1351.2	1353.3	1353.3	1349.1
5°	1355.4	1347.0	1351.2	1349.1	1347.0
7.5°	1347.0	1340.7	1344.9	1344.9	1342.8
10°	1336.5	1330.2	1334.4	1336.5	1336.5
12.5°	1321.8	1317.6	1323.9	1323.9	1326.0
15°	1305.0	1300.8	1309.2	1313.4	1313.4
17.5°	1286.1	1284.0	1294.5	1296.6	1298.7
20°	1265.0	1262.9	1275.6	1275.6	1279.8
22.5°	1239.8	1237.7	1254.5	1254.5	1258.7
25°	1212.5	1210.4	1229.3	1233.5	1235.6
27.5°	1183.1	1181.0	1199.9	1206.2	1210.4
30°	1149.5	1149.5	1170.5	1178.9	1185.2
32.5°	1111.6	1118.0	1136.9	1149.5	1157.9
35°	1075.9	1084.3	1105.3	1120.1	1130.6
37.5°	1036.0	1044.4	1067.5	1086.4	1099.0
40°	994.0	1004.5	1031.8	1052.8	1071.7
42.5°	951.9	962.4	991.9	1023.4	1048.6
45°	903.6	918.3	949.8	994.0	1023.4
47.5°	855.3	870.0	909.9	964.5	994.0
50°	804.8	821.7	870.0	933.0	964.5
52.5°	752.3	771.2	832.2	899.4	930.9
55°	697.7	720.8	790.1	861.6	895.2
57.5°	640.9	666.1	748.1	823.8	859.5
60°	582.1	613.6	704.0	783.8	821.7
62.5°	521.1	559.0	659.8	741.8	781.7
65°	458.1	502.2	613.6	699.8	739.7
67.5°	393.0	451.8	567.4	657.7	697.7
70°	327.8	397.2	519.0	611.5	651.4
72.5°	266.9	346.7	470.7	556.9	565.3
75°	208.0	296.3	420.3	428.7	414.0
77.5°	155.5	245.9	346.7	308.9	306.8
80°	111.4	197.5	222.7	229.1	231.2
82.5°	73.5	149.2	145.0	149.2	147.1
85°	44.1	73.5	75.7	73.5	69.3
87.5°	21.0	27.3	21.0	18.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)