

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: P263303

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263303  
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-LD5-75-SQP-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4579.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

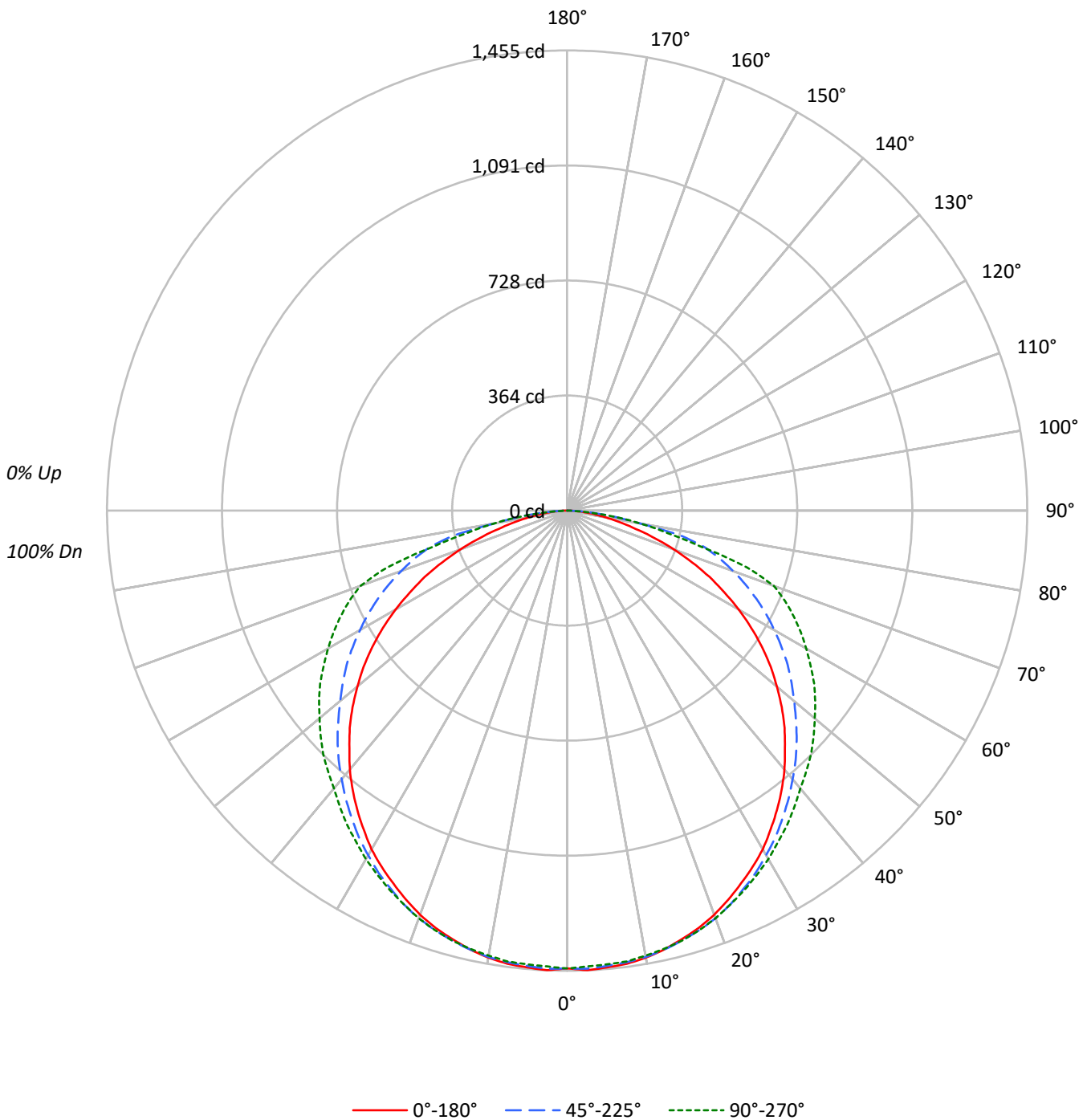
Input Watts (W): 58.404  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1948	1948	1948
5°	1958	1952	1945
10°	1962	1958	1952
15°	1954	1960	1960
20°	1947	1964	1964
25°	1931	1959	1966
30°	1922	1955	1977
35°	1900	1950	1993
40°	1878	1948	2015
45°	1850	1953	2075
50°	1812	1961	2139
55°	1764	1997	2236
60°	1687	2037	2349
65°	1581	2101	2515
70°	1414	2196	2736
75°	1168	2349	2262
80°	953	1815	1832
85°	767	1206	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.5	3.0
10°-20°	396.7	8.7
20°-30°	606.3	13.2
30°-40°	741.5	16.2
40°-50°	793.4	17.3
50°-60°	759.8	16.6
60°-70°	642.7	14.0
70°-80°	407.4	8.9
80°-90°	93.7	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°	1140.5	24.9
0°-40°	1882.0	41.1
0°-60°	3435.2	75.0
0°-90°	4579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4579.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1450	1443	1445	1443	1440	138
15°	1403	1400	1407	1407	1407	396
25°	1301	1301	1320	1324	1324	600
35°	1157	1164	1187	1204	1213	724
45°	972	989	1026	1069	1090	749
55°	752	776	852	922	953	671
65°	497	544	660	750	790	489
75°	225	317	452	449	435	244
85°	50	76	78	71	73	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1447.5	1447.5	1447.5	1447.5	1447.5
2.5°	1454.6	1447.5	1449.9	1447.5	1442.8
5°	1449.9	1442.8	1445.1	1442.8	1440.4
7.5°	1445.1	1438.0	1440.4	1438.0	1438.0
10°	1435.7	1428.6	1433.3	1431.0	1428.6
12.5°	1421.5	1416.8	1421.5	1419.1	1419.1
15°	1402.6	1400.2	1407.3	1407.3	1407.3
17.5°	1383.6	1381.3	1390.7	1390.7	1390.7
20°	1360.0	1357.6	1371.8	1371.8	1371.8
22.5°	1331.6	1329.2	1348.2	1348.2	1348.2
25°	1300.9	1300.9	1319.8	1324.5	1324.5
27.5°	1270.1	1270.1	1291.4	1298.5	1298.5
30°	1237.0	1237.0	1258.3	1267.8	1272.5
32.5°	1196.8	1201.5	1225.2	1237.0	1241.7
35°	1156.6	1163.7	1187.3	1203.9	1213.4
37.5°	1114.0	1121.1	1149.5	1168.4	1180.2
40°	1069.1	1078.5	1109.3	1132.9	1147.1
42.5°	1019.4	1033.6	1069.1	1099.8	1118.7
45°	972.1	988.7	1026.5	1069.1	1090.4
47.5°	920.1	939.0	981.6	1036.0	1057.2
50°	865.7	884.6	936.6	998.1	1021.8
52.5°	811.3	832.6	894.0	960.3	988.7
55°	752.1	775.8	851.5	922.4	953.2
57.5°	690.6	719.0	804.2	879.9	913.0
60°	626.8	662.3	756.9	837.3	872.8
62.5°	560.6	603.1	709.6	794.7	832.6
65°	496.7	544.0	659.9	749.8	790.0
67.5°	428.1	487.2	610.2	707.2	745.0
70°	359.5	428.1	558.2	657.5	695.4
72.5°	290.9	373.7	506.2	596.0	596.0
75°	224.7	316.9	451.8	449.4	435.2
77.5°	170.3	264.9	371.3	316.9	319.3
80°	123.0	212.9	234.2	234.2	236.5
82.5°	82.8	163.2	151.4	149.0	153.7
85°	49.7	75.7	78.1	71.0	73.3
87.5°	23.7	26.0	21.3	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)