

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: P263402

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263402
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-LD5-55-SQP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 72.0 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

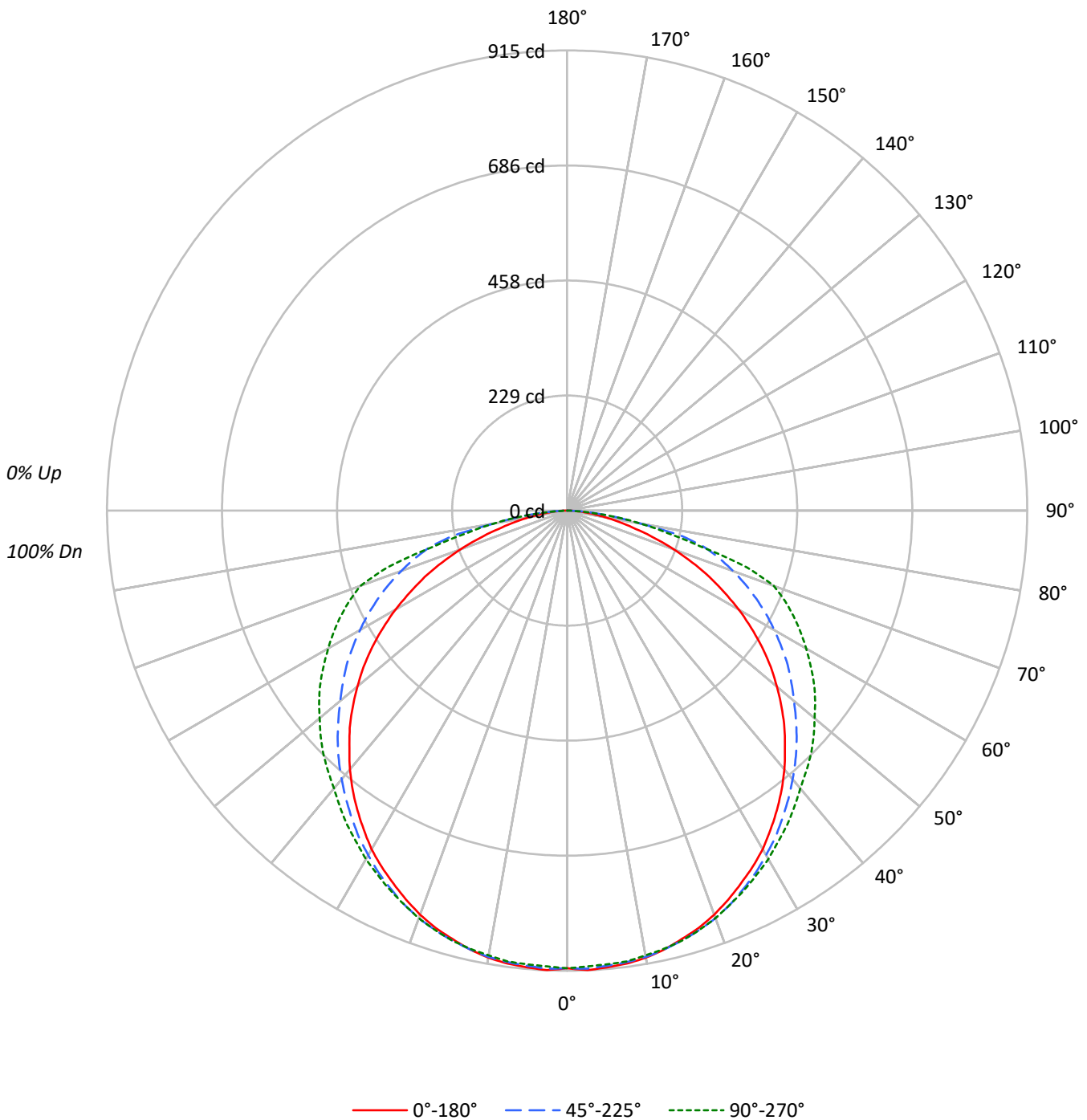
Input Watts (W): 39.99
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1225	1225	1225
5°	1231	1227	1223
10°	1233	1231	1227
15°	1228	1232	1232
20°	1224	1235	1235
25°	1214	1232	1236
30°	1208	1229	1243
35°	1194	1226	1253
40°	1181	1225	1267
45°	1163	1228	1305
50°	1139	1233	1345
55°	1109	1256	1406
60°	1061	1281	1477
65°	994	1321	1581
70°	889	1381	1720
75°	735	1476	1422
80°	599	1141	1152
85°	482	758	712



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.0
10°-20°	249.4	8.7
20°-30°	381.2	13.2
30°-40°	466.2	16.2
40°-50°	498.9	17.3
50°-60°	477.7	16.6
60°-70°	404.1	14.0
70°-80°	256.1	8.9
80°-90°	58.9	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°	717.1	24.9
0°-40°	1183.3	41.1
0°-60°	2159.8	75.0
0°-90°	2879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	912	907	909	907	906	87
15°	882	880	885	885	885	249
25°	818	818	830	833	833	377
35°	727	732	746	757	763	455
45°	611	622	645	672	686	471
55°	473	488	535	580	599	422
65°	312	342	415	471	497	308
75°	141	199	284	282	274	154
85°	31	48	49	45	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.1	910.1	910.1	910.1	910.1
2.5°	914.6	910.1	911.6	910.1	907.1
5°	911.6	907.1	908.6	907.1	905.6
7.5°	908.6	904.2	905.6	904.2	904.2
10°	902.7	898.2	901.2	899.7	898.2
12.5°	893.7	890.8	893.7	892.3	892.3
15°	881.9	880.4	884.8	884.8	884.8
17.5°	870.0	868.5	874.4	874.4	874.4
20°	855.1	853.6	862.5	862.5	862.5
22.5°	837.2	835.8	847.6	847.6	847.6
25°	817.9	817.9	829.8	832.8	832.8
27.5°	798.6	798.6	812.0	816.4	816.4
30°	777.8	777.8	791.1	797.1	800.1
32.5°	752.5	755.4	770.3	777.8	780.7
35°	727.2	731.7	746.5	756.9	762.9
37.5°	700.4	704.9	722.7	734.6	742.1
40°	672.2	678.1	697.5	712.3	721.2
42.5°	640.9	649.9	672.2	691.5	703.4
45°	611.2	621.6	645.4	672.2	685.6
47.5°	578.5	590.4	617.1	651.4	664.7
50°	544.3	556.2	588.9	627.6	642.4
52.5°	510.1	523.5	562.1	603.8	621.6
55°	472.9	487.8	535.4	580.0	599.3
57.5°	434.2	452.1	505.6	553.2	574.0
60°	394.1	416.4	475.9	526.4	548.7
62.5°	352.4	379.2	446.1	499.7	523.5
65°	312.3	342.0	414.9	471.4	496.7
67.5°	269.2	306.3	383.7	444.6	468.4
70°	226.0	269.2	351.0	413.4	437.2
72.5°	182.9	235.0	318.2	374.7	374.7
75°	141.3	199.3	284.0	282.5	273.6
77.5°	107.1	166.6	233.5	199.3	200.8
80°	77.3	133.8	147.2	147.2	148.7
82.5°	52.0	102.6	95.2	93.7	96.7
85°	31.2	47.6	49.1	44.6	46.1
87.5°	14.9	16.4	13.4	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)