

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: P263139

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263139
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-LD5-45SE-SQP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3150.0 lumens
Efficiency: N/A
Efficacy: 88.1 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

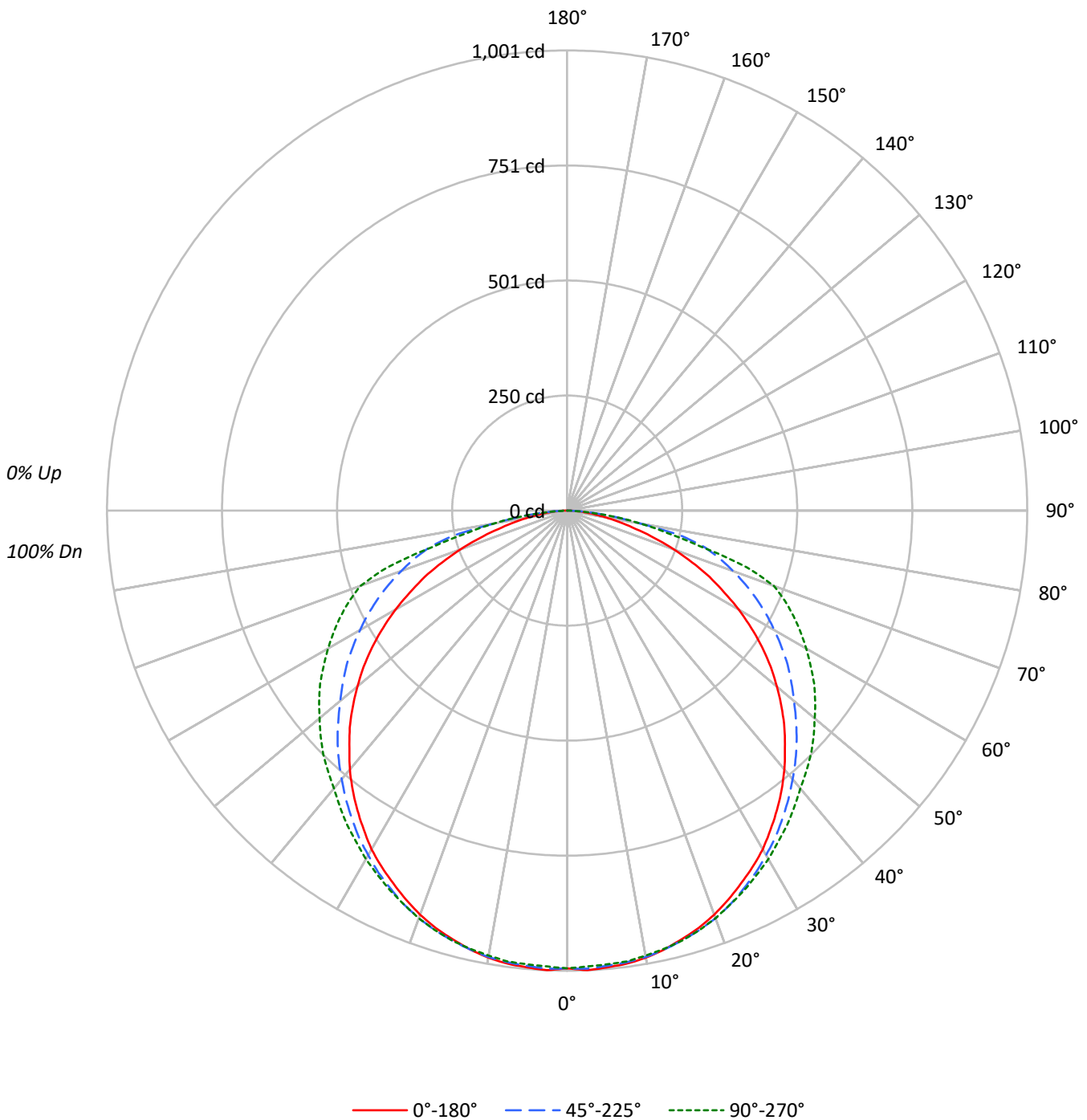
Input Watts (W): 35.772264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1340	1340	1340
5°	1347	1343	1338
10°	1349	1347	1343
15°	1344	1349	1349
20°	1340	1351	1351
25°	1329	1348	1353
30°	1322	1345	1360
35°	1307	1342	1371
40°	1292	1340	1386
45°	1272	1344	1427
50°	1247	1349	1471
55°	1214	1374	1538
60°	1160	1401	1616
65°	1088	1445	1730
70°	973	1511	1882
75°	804	1616	1556
80°	656	1248	1261
85°	528	829	778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	3.0
10°-20°	272.9	8.7
20°-30°	417.1	13.2
30°-40°	510.1	16.2
40°-50°	545.8	17.3
50°-60°	522.7	16.6
60°-70°	442.1	14.0
70°-80°	280.3	8.9
80°-90°	64.5	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°	784.5	24.9
0°-40°	1294.7	41.1
0°-60°	2363.1	75.0
0°-90°	3150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	997	992	994	992	991	95
15°	965	963	968	968	968	273
25°	895	895	908	911	911	413
35°	796	800	817	828	835	498
45°	669	680	706	735	750	515
55°	517	534	586	635	656	462
65°	342	374	454	516	543	337
75°	155	218	311	309	299	168
85°	34	52	54	49	50	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.8	995.8	995.8	995.8	995.8
2.5°	1000.7	995.8	997.4	995.8	992.5
5°	997.4	992.5	994.1	992.5	990.9
7.5°	994.1	989.3	990.9	989.3	989.3
10°	987.6	982.8	986.0	984.4	982.8
12.5°	977.9	974.6	977.9	976.2	976.2
15°	964.9	963.2	968.1	968.1	968.1
17.5°	951.8	950.2	956.7	956.7	956.7
20°	935.6	933.9	943.7	943.7	943.7
22.5°	916.0	914.4	927.4	927.4	927.4
25°	894.9	894.9	907.9	911.2	911.2
27.5°	873.7	873.7	888.4	893.3	893.3
30°	851.0	851.0	865.6	872.1	875.4
32.5°	823.3	826.6	842.8	851.0	854.2
35°	795.6	800.5	816.8	828.2	834.7
37.5°	766.4	771.2	790.8	803.8	811.9
40°	735.4	741.9	763.1	779.4	789.1
42.5°	701.3	711.0	735.4	756.6	769.6
45°	668.7	680.1	706.2	735.4	750.1
47.5°	632.9	646.0	675.2	712.7	727.3
50°	595.5	608.5	644.3	686.6	702.9
52.5°	558.1	572.7	615.0	660.6	680.1
55°	517.4	533.7	585.7	634.6	655.7
57.5°	475.1	494.6	553.2	605.3	628.1
60°	431.2	455.6	520.7	576.0	600.4
62.5°	385.6	414.9	488.1	546.7	572.7
65°	341.7	374.2	454.0	515.8	543.4
67.5°	294.5	335.2	419.8	486.5	512.5
70°	247.3	294.5	384.0	452.3	478.4
72.5°	200.1	257.1	348.2	410.0	410.0
75°	154.6	218.0	310.8	309.1	299.4
77.5°	117.1	182.2	255.5	218.0	219.7
80°	84.6	146.4	161.1	161.1	162.7
82.5°	56.9	112.3	104.1	102.5	105.8
85°	34.2	52.1	53.7	48.8	50.4
87.5°	16.3	17.9	14.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)