

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: P263343

Luminaire Tested: **24CZ-LD5-45SE-SQP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263343
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-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 85.6 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

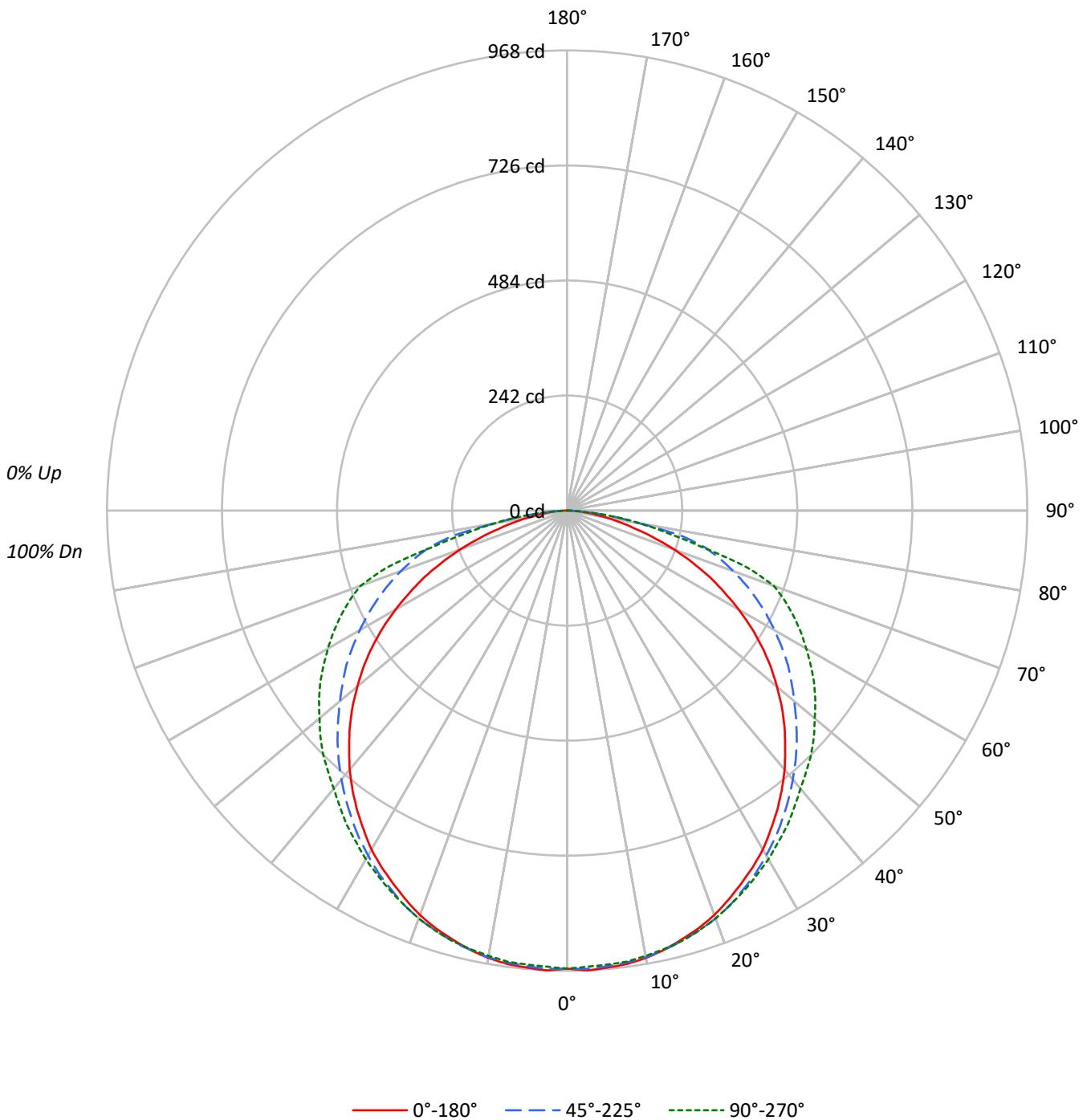
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1296	1296	1296
5°	1303	1299	1295
10°	1306	1304	1299
15°	1300	1305	1305
20°	1296	1307	1307
25°	1286	1304	1309
30°	1279	1301	1316
35°	1265	1298	1327
40°	1250	1297	1341
45°	1231	1300	1381
50°	1206	1305	1424
55°	1175	1330	1488
60°	1123	1356	1563
65°	1053	1399	1674
70°	941	1462	1821
75°	778	1563	1506
80°	635	1208	1220
85°	511	803	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.0
10°-20°	264.1	8.7
20°-30°	403.6	13.2
30°-40°	493.6	16.2
40°-50°	528.1	17.3
50°-60°	505.7	16.6
60°-70°	427.8	14.0
70°-80°	271.2	8.9
80°-90°	62.4	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°	759.1	24.9
0°-40°	1252.7	41.1
0°-60°	2286.6	75.0
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	965	960	962	960	959	92
15°	934	932	937	937	937	264
25°	866	866	878	882	882	400
35°	770	775	790	801	808	482
45°	647	658	683	712	726	498
55°	501	516	567	614	634	447
65°	331	362	439	499	526	326
75°	150	211	301	299	290	163
85°	33	50	52	47	49	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.5	963.5	963.5	963.5	963.5
2.5°	968.3	963.5	965.1	963.5	960.4
5°	965.1	960.4	962.0	960.4	958.8
7.5°	962.0	957.2	958.8	957.2	957.2
10°	955.7	950.9	954.1	952.5	950.9
12.5°	946.2	943.1	946.2	944.6	944.6
15°	933.6	932.0	936.8	936.8	936.8
17.5°	921.0	919.4	925.7	925.7	925.7
20°	905.3	903.7	913.1	913.1	913.1
22.5°	886.4	884.8	897.4	897.4	897.4
25°	865.9	865.9	878.5	881.7	881.7
27.5°	845.5	845.5	859.6	864.3	864.3
30°	823.4	823.4	837.6	843.9	847.0
32.5°	796.6	799.8	815.5	823.4	826.6
35°	769.9	774.6	790.3	801.4	807.7
37.5°	741.5	746.3	765.2	777.8	785.6
40°	711.6	717.9	738.4	754.1	763.6
42.5°	678.6	688.0	711.6	732.1	744.7
45°	647.1	658.1	683.3	711.6	725.8
47.5°	612.4	625.0	653.4	689.6	703.8
50°	576.2	588.8	623.5	664.4	680.1
52.5°	540.0	554.2	595.1	639.2	658.1
55°	500.7	516.4	566.8	614.0	634.5
57.5°	459.7	478.6	535.3	585.7	607.7
60°	417.2	440.8	503.8	557.3	581.0
62.5°	373.1	401.5	472.3	529.0	554.2
65°	330.6	362.1	439.3	499.1	525.8
67.5°	285.0	324.3	406.2	470.7	495.9
70°	239.3	285.0	371.6	437.7	462.9
72.5°	193.7	248.8	336.9	396.7	396.7
75°	149.6	211.0	300.7	299.1	289.7
77.5°	113.4	176.3	247.2	211.0	212.5
80°	81.9	141.7	155.9	155.9	157.4
82.5°	55.1	108.6	100.8	99.2	102.3
85°	33.1	50.4	52.0	47.2	48.8
87.5°	15.7	17.3	14.2	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)