

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: P263489

Luminaire Tested: **24CZ-LD5-50SE-SQP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263489
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-LD5-50SE-SQP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3108.0 lumens
Efficiency: N/A
Efficacy: 76.1 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

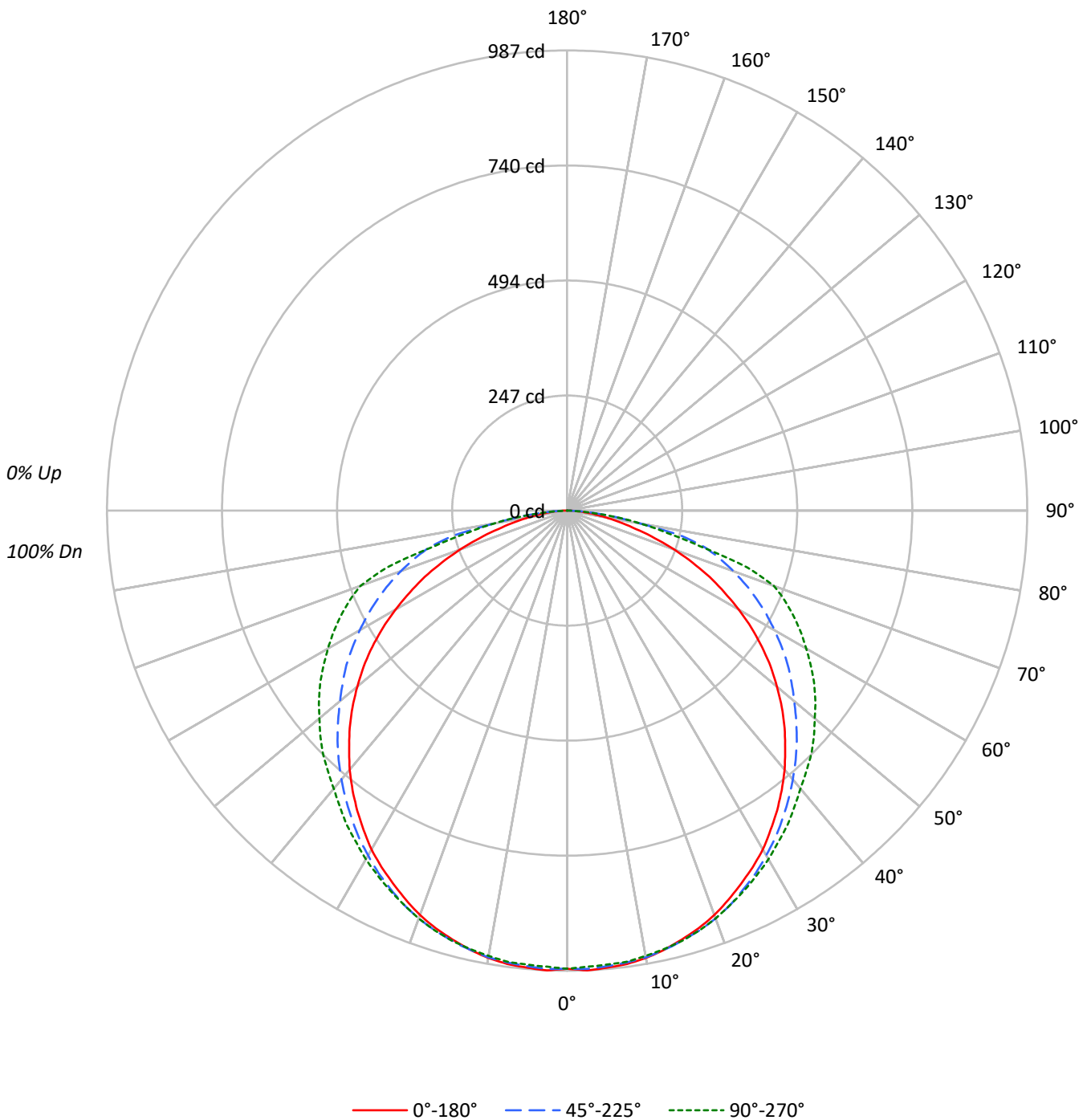
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1322	1322	1322
5°	1329	1325	1321
10°	1331	1329	1325
15°	1326	1331	1331
20°	1322	1333	1333
25°	1311	1330	1335
30°	1304	1327	1342
35°	1289	1324	1353
40°	1274	1322	1368
45°	1255	1326	1408
50°	1230	1331	1452
55°	1198	1356	1518
60°	1145	1382	1594
65°	1073	1426	1707
70°	960	1491	1857
75°	793	1594	1536
80°	647	1231	1244
85°	520	818	769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.0
10°-20°	269.3	8.7
20°-30°	411.5	13.2
30°-40°	503.3	16.2
40°-50°	538.5	17.3
50°-60°	515.7	16.6
60°-70°	436.2	14.0
70°-80°	276.5	8.9
80°-90°	63.6	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°	774.1	24.9
0°-40°	1277.4	41.1
0°-60°	2331.6	75.0
0°-90°	3108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	984	979	981	979	978	94
15°	952	950	955	955	955	269
25°	883	883	896	899	899	407
35°	785	790	806	817	824	491
45°	660	671	697	726	740	508
55°	510	527	578	626	647	455
65°	337	369	448	509	536	332
75°	152	215	307	305	295	166
85°	34	51	53	48	50	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.5	982.5	982.5	982.5	982.5
2.5°	987.3	982.5	984.1	982.5	979.3
5°	984.1	979.3	980.9	979.3	977.7
7.5°	980.9	976.1	977.7	976.1	976.1
10°	974.5	969.7	972.9	971.3	969.7
12.5°	964.8	961.6	964.8	963.2	963.2
15°	952.0	950.4	955.2	955.2	955.2
17.5°	939.2	937.5	944.0	944.0	944.0
20°	923.1	921.5	931.1	931.1	931.1
22.5°	903.8	902.2	915.1	915.1	915.1
25°	883.0	883.0	895.8	899.0	899.0
27.5°	862.1	862.1	876.5	881.4	881.4
30°	839.6	839.6	854.1	860.5	863.7
32.5°	812.3	815.5	831.6	839.6	842.8
35°	785.0	789.9	805.9	817.1	823.6
37.5°	756.1	761.0	780.2	793.1	801.1
40°	725.6	732.1	752.9	769.0	778.6
42.5°	691.9	701.6	725.6	746.5	759.3
45°	659.8	671.1	696.7	725.6	740.1
47.5°	624.5	637.3	666.2	703.2	717.6
50°	587.6	600.4	635.7	677.5	693.5
52.5°	550.6	565.1	606.8	651.8	671.1
55°	510.5	526.6	577.9	626.1	647.0
57.5°	468.8	488.0	545.8	597.2	619.7
60°	425.4	449.5	513.7	568.3	592.4
62.5°	380.5	409.4	481.6	539.4	565.1
65°	337.1	369.2	447.9	508.9	536.2
67.5°	290.6	330.7	414.2	480.0	505.7
70°	244.0	290.6	378.9	446.3	472.0
72.5°	197.5	253.7	343.6	404.6	404.6
75°	152.5	215.1	306.6	305.0	295.4
77.5°	115.6	179.8	252.0	215.1	216.7
80°	83.5	144.5	158.9	158.9	160.5
82.5°	56.2	110.8	102.7	101.1	104.4
85°	33.7	51.4	53.0	48.2	49.8
87.5°	16.1	17.7	14.4	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)