

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: P263257

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263257
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-LD5-45-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3103.0 lumens
Efficiency: N/A
Efficacy: 94.5 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

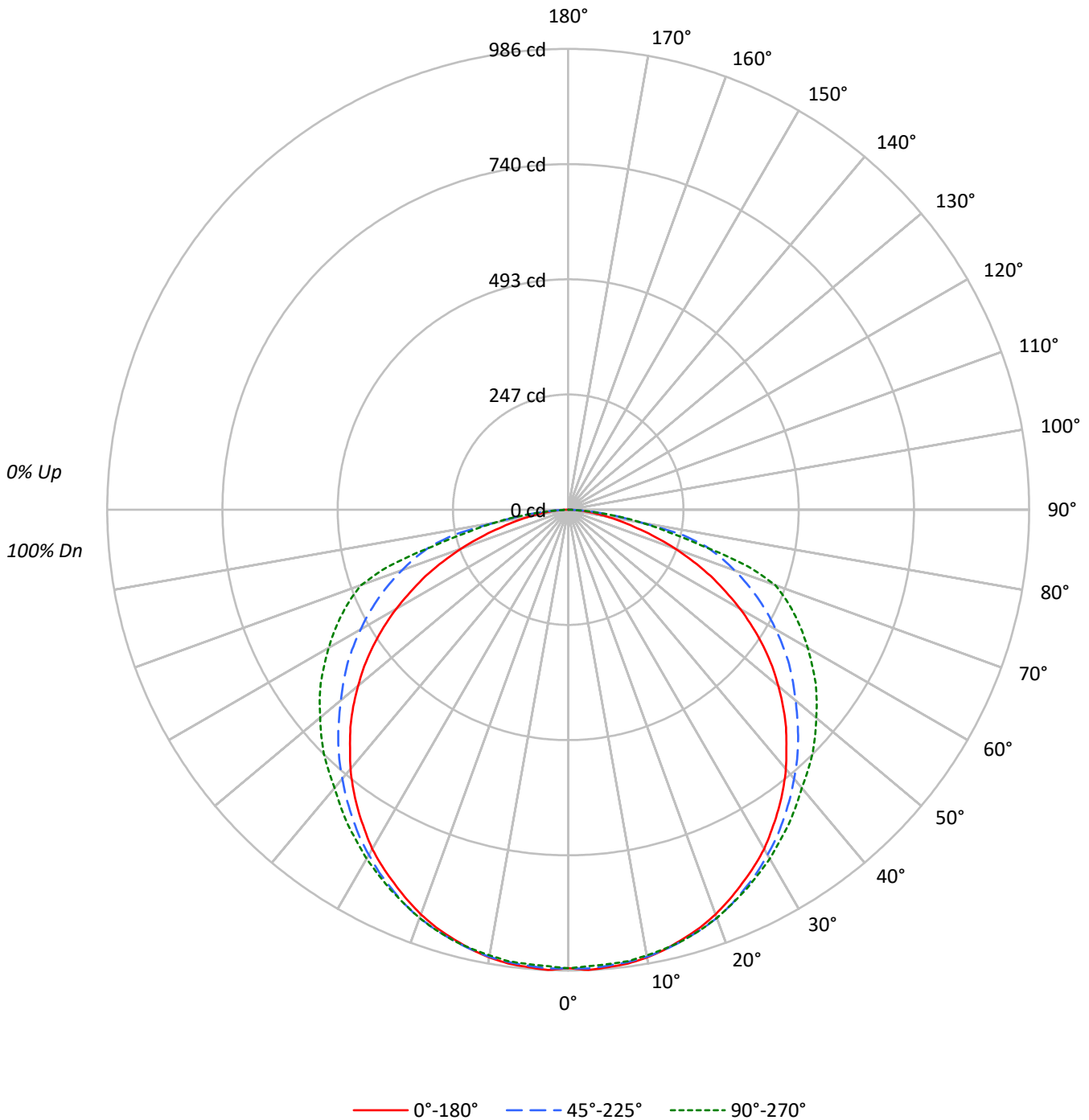
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1320	1320	1320
5°	1327	1323	1318
10°	1329	1327	1323
15°	1324	1328	1328
20°	1320	1331	1331
25°	1309	1328	1333
30°	1302	1325	1340
35°	1287	1322	1350
40°	1273	1320	1365
45°	1254	1324	1406
50°	1228	1329	1449
55°	1196	1354	1515
60°	1143	1380	1591
65°	1072	1424	1704
70°	958	1488	1854
75°	792	1591	1533
80°	645	1230	1242
85°	520	817	767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.0
10°-20°	268.8	8.7
20°-30°	410.9	13.2
30°-40°	502.5	16.2
40°-50°	537.7	17.3
50°-60°	514.9	16.6
60°-70°	435.5	14.0
70°-80°	276.1	8.9
80°-90°	63.5	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°	772.8	24.9
0°-40°	1275.3	41.1
0°-60°	2327.9	75.0
0°-90°	3103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	981	981	981	981	981	
5°	982	978	979	978	976	94
15°	950	949	954	954	954	268
25°	882	882	894	898	898	407
35°	784	789	805	816	822	490
45°	659	670	696	724	739	507
55°	510	526	577	625	646	455
65°	337	369	447	508	535	332
75°	152	215	306	304	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°	980.9	980.9	980.9	980.9	980.9
2.5°	985.7	980.9	982.5	980.9	977.7
5°	982.5	977.7	979.3	977.7	976.1
7.5°	979.3	974.5	976.1	974.5	974.5
10°	972.9	968.1	971.3	969.7	968.1
12.5°	963.3	960.1	963.3	961.7	961.7
15°	950.5	948.9	953.7	953.7	953.7
17.5°	937.6	936.0	942.4	942.4	942.4
20°	921.6	920.0	929.6	929.6	929.6
22.5°	902.4	900.8	913.6	913.6	913.6
25°	881.5	881.5	894.4	897.6	897.6
27.5°	860.7	860.7	875.1	879.9	879.9
30°	838.3	838.3	852.7	859.1	862.3
32.5°	811.0	814.2	830.3	838.3	841.5
35°	783.8	788.6	804.6	815.8	822.2
37.5°	754.9	759.7	779.0	791.8	799.8
40°	724.5	730.9	751.7	767.7	777.4
42.5°	690.8	700.4	724.5	745.3	758.1
45°	658.8	670.0	695.6	724.5	738.9
47.5°	623.5	636.3	665.2	702.0	716.5
50°	586.6	599.4	634.7	676.4	692.4
52.5°	549.8	564.2	605.9	650.7	670.0
55°	509.7	525.7	577.0	625.1	645.9
57.5°	468.0	487.3	545.0	596.2	618.7
60°	424.7	448.8	512.9	567.4	591.4
62.5°	379.9	408.7	480.8	538.5	564.2
65°	336.6	368.6	447.2	508.1	535.3
67.5°	290.1	330.2	413.5	479.2	504.9
70°	243.6	290.1	378.3	445.6	471.2
72.5°	197.1	253.2	343.0	403.9	403.9
75°	152.3	214.8	306.1	304.5	294.9
77.5°	115.4	179.5	251.6	214.8	216.4
80°	83.3	144.3	158.7	158.7	160.3
82.5°	56.1	110.6	102.6	101.0	104.2
85°	33.7	51.3	52.9	48.1	49.7
87.5°	16.0	17.6	14.4	9.6	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)