

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: P263085

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263085
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-LD5-40-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2858.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

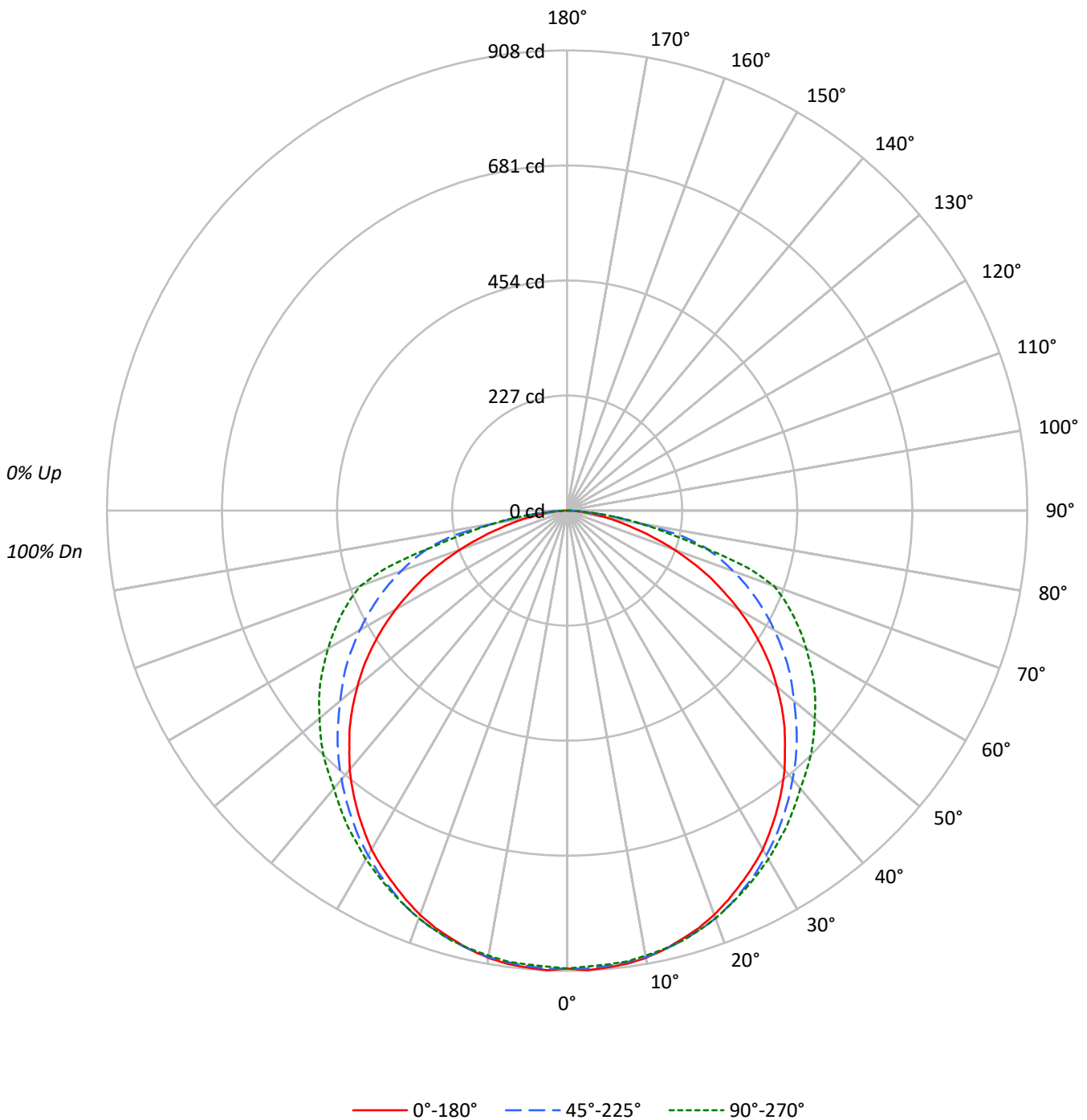
Input Watts (W): 29.657328
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1216	1216	1216
5°	1222	1218	1214
10°	1224	1222	1218
15°	1219	1224	1224
20°	1215	1226	1226
25°	1205	1223	1227
30°	1200	1220	1234
35°	1186	1217	1244
40°	1172	1216	1258
45°	1154	1219	1295
50°	1131	1224	1335
55°	1101	1247	1396
60°	1053	1271	1466
65°	987	1311	1570
70°	883	1371	1707
75°	729	1466	1412
80°	595	1132	1144
85°	479	752	707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.0
10°-20°	247.6	8.7
20°-30°	378.4	13.2
30°-40°	462.8	16.2
40°-50°	495.2	17.3
50°-60°	474.2	16.6
60°-70°	401.1	14.0
70°-80°	254.3	8.9
80°-90°	58.5	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°	711.8	24.9
0°-40°	1174.6	41.1
0°-60°	2144.1	75.0
0°-90°	2858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	905	900	902	900	899	86
15°	875	874	878	878	878	247
25°	812	812	824	827	827	375
35°	722	726	741	751	757	452
45°	607	617	641	667	681	467
55°	469	484	532	576	595	419
65°	310	340	412	468	493	305
75°	140	198	282	280	272	152
85°	31	47	49	44	46	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	903.5	903.5	903.5	903.5	903.5
2.5°	907.9	903.5	904.9	903.5	900.5
5°	904.9	900.5	902.0	900.5	899.0
7.5°	902.0	897.6	899.0	897.6	897.6
10°	896.1	891.7	894.6	893.1	891.7
12.5°	887.2	884.3	887.2	885.8	885.8
15°	875.4	873.9	878.4	878.4	878.4
17.5°	863.6	862.1	868.0	868.0	868.0
20°	848.8	847.4	856.2	856.2	856.2
22.5°	831.1	829.7	841.5	841.5	841.5
25°	811.9	811.9	823.7	826.7	826.7
27.5°	792.7	792.7	806.0	810.5	810.5
30°	772.1	772.1	785.4	791.3	794.2
32.5°	747.0	749.9	764.7	772.1	775.0
35°	721.9	726.3	741.1	751.4	757.3
37.5°	695.3	699.7	717.5	729.3	736.7
40°	667.3	673.2	692.4	707.1	716.0
42.5°	636.3	645.1	667.3	686.5	698.3
45°	606.7	617.1	640.7	667.3	680.6
47.5°	574.3	586.1	612.6	646.6	659.9
50°	540.3	552.1	584.6	623.0	637.7
52.5°	506.4	519.6	558.0	599.4	617.1
55°	469.4	484.2	531.5	575.7	594.9
57.5°	431.1	448.8	501.9	549.2	569.8
60°	391.2	413.4	472.4	522.6	544.7
62.5°	349.9	376.4	442.9	496.0	519.6
65°	310.0	339.5	411.9	468.0	493.1
67.5°	267.2	304.1	380.9	441.4	465.0
70°	224.4	267.2	348.4	410.4	434.0
72.5°	181.6	233.2	315.9	372.0	372.0
75°	140.2	197.8	282.0	280.5	271.6
77.5°	106.3	165.3	231.8	197.8	199.3
80°	76.8	132.9	146.1	146.1	147.6
82.5°	51.7	101.9	94.5	93.0	96.0
85°	31.0	47.2	48.7	44.3	45.8
87.5°	14.8	16.2	13.3	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)