

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: P277073

Luminaire Tested: **24CZ2-60HE-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-RDP-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283.6 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

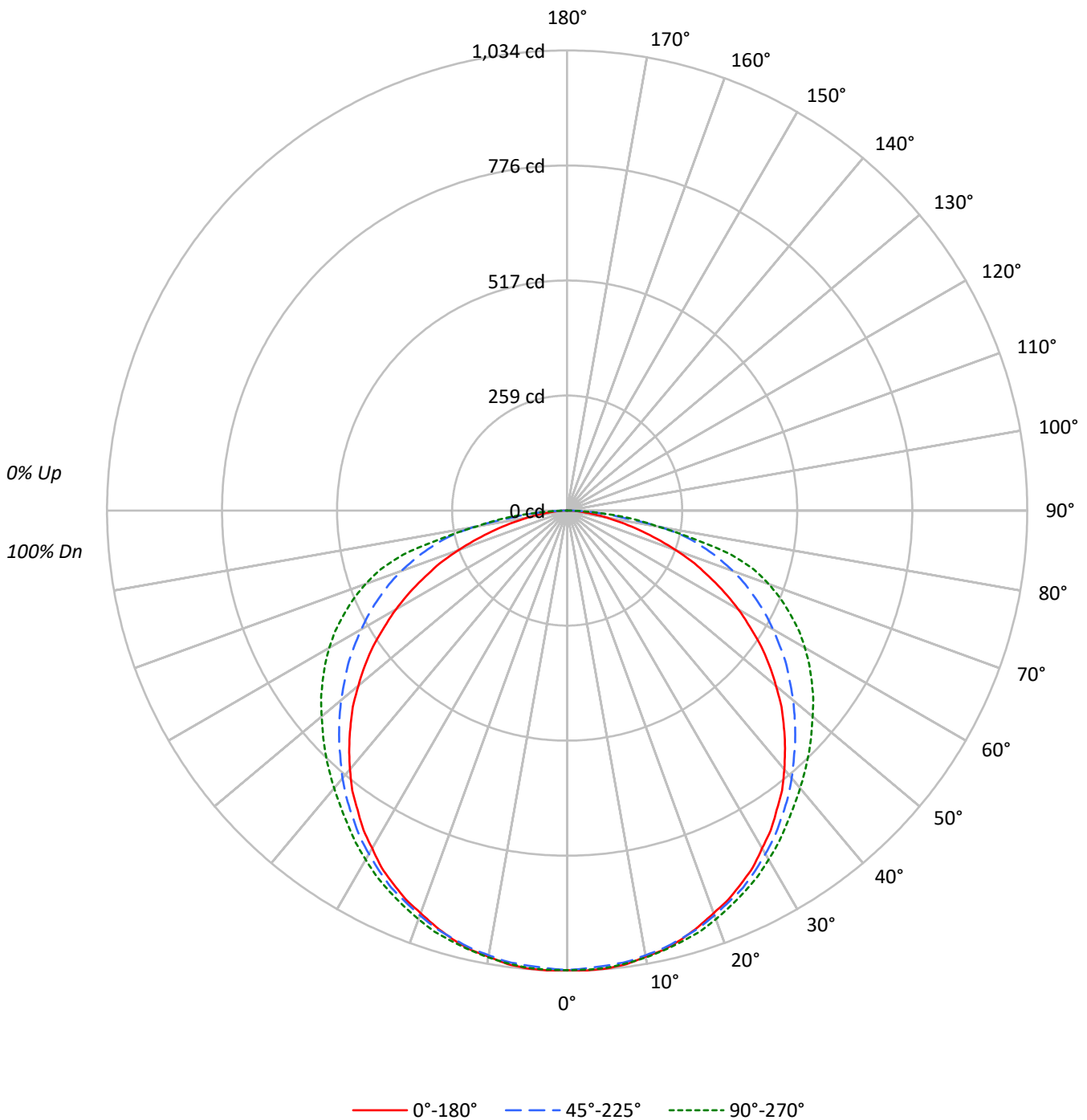
Input Watts (W): 44.361
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1389	1389	1389
5°	1395	1386	1392
10°	1391	1386	1393
15°	1388	1386	1395
20°	1378	1385	1399
25°	1373	1388	1402
30°	1361	1384	1407
35°	1348	1380	1413
40°	1333	1379	1430
45°	1311	1379	1463
50°	1282	1388	1507
55°	1249	1410	1574
60°	1196	1438	1661
65°	1120	1488	1763
70°	1019	1557	1897
75°	863	1643	1981
80°	682	1654	1602
85°	503	1257	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.0
10°-20°	281.9	8.6
20°-30°	431.1	13.1
30°-40°	527.0	16.0
40°-50°	561.7	17.1
50°-60°	537.0	16.4
60°-70°	454.9	13.9
70°-80°	305.8	9.3
80°-90°	86.2	2.6
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°	811.0	24.7
0°-40°	1338.0	40.7
0°-60°	2436.7	74.2
0°-90°	3283.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3283.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1033	1031	1026	1031	1031	98
15°	997	997	995	1003	1002	281
25°	925	928	935	943	945	426
35°	821	827	840	857	860	514
45°	689	700	725	756	769	531
55°	533	552	601	648	671	474
65°	352	388	467	529	554	349
75°	166	226	316	370	381	178
85°	33	67	81	88	91	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.6	1032.6	1032.6	1032.6	1032.6
2.5°	1034.2	1034.2	1029.4	1032.6	1032.6
5°	1032.6	1031.0	1026.1	1031.0	1031.0
7.5°	1027.7	1026.1	1022.8	1027.7	1026.1
10°	1018.0	1018.0	1014.7	1019.6	1019.6
12.5°	1009.8	1008.2	1006.6	1013.1	1011.4
15°	996.8	996.8	995.2	1003.3	1001.7
17.5°	980.5	982.1	983.8	990.3	991.9
20°	962.6	965.8	967.5	977.2	977.2
22.5°	946.3	947.9	951.2	961.0	961.0
25°	925.1	928.4	934.9	943.0	944.7
27.5°	903.9	905.6	913.7	925.1	926.7
30°	876.3	881.1	890.9	903.9	905.6
32.5°	851.8	856.7	868.1	881.1	884.4
35°	820.9	827.4	840.4	856.7	860.0
37.5°	793.2	798.1	814.4	832.3	837.2
40°	759.0	768.8	785.0	806.2	814.4
42.5°	724.8	734.6	754.1	781.8	791.6
45°	689.0	700.4	724.8	755.7	768.8
47.5°	653.1	666.2	693.8	729.7	744.3
50°	612.4	628.7	662.9	703.6	719.9
52.5°	573.3	592.9	630.3	675.9	697.1
55°	532.6	552.1	601.0	648.2	671.0
57.5°	487.0	513.1	566.8	620.5	645.0
60°	444.6	469.1	534.2	592.9	617.3
62.5°	399.0	431.6	501.6	563.5	588.0
65°	351.8	387.6	467.4	529.3	553.8
67.5°	309.5	348.5	433.2	495.1	519.6
70°	259.0	307.8	395.8	457.7	482.1
72.5°	211.7	265.5	356.7	417.0	439.8
75°	166.1	226.4	316.0	369.7	381.1
77.5°	123.8	187.3	273.6	296.4	288.3
80°	88.0	149.8	213.4	202.0	206.8
82.5°	57.0	114.0	131.9	149.8	154.7
85°	32.6	66.8	81.4	88.0	91.2
87.5°	14.7	24.4	32.6	32.6	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)