

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: P277053

Luminaire Tested: **24CZ2-50HE-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277053
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: 24CZ2-50HE-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.5 lumens
Efficiency: N/A
Efficacy: 70.3 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

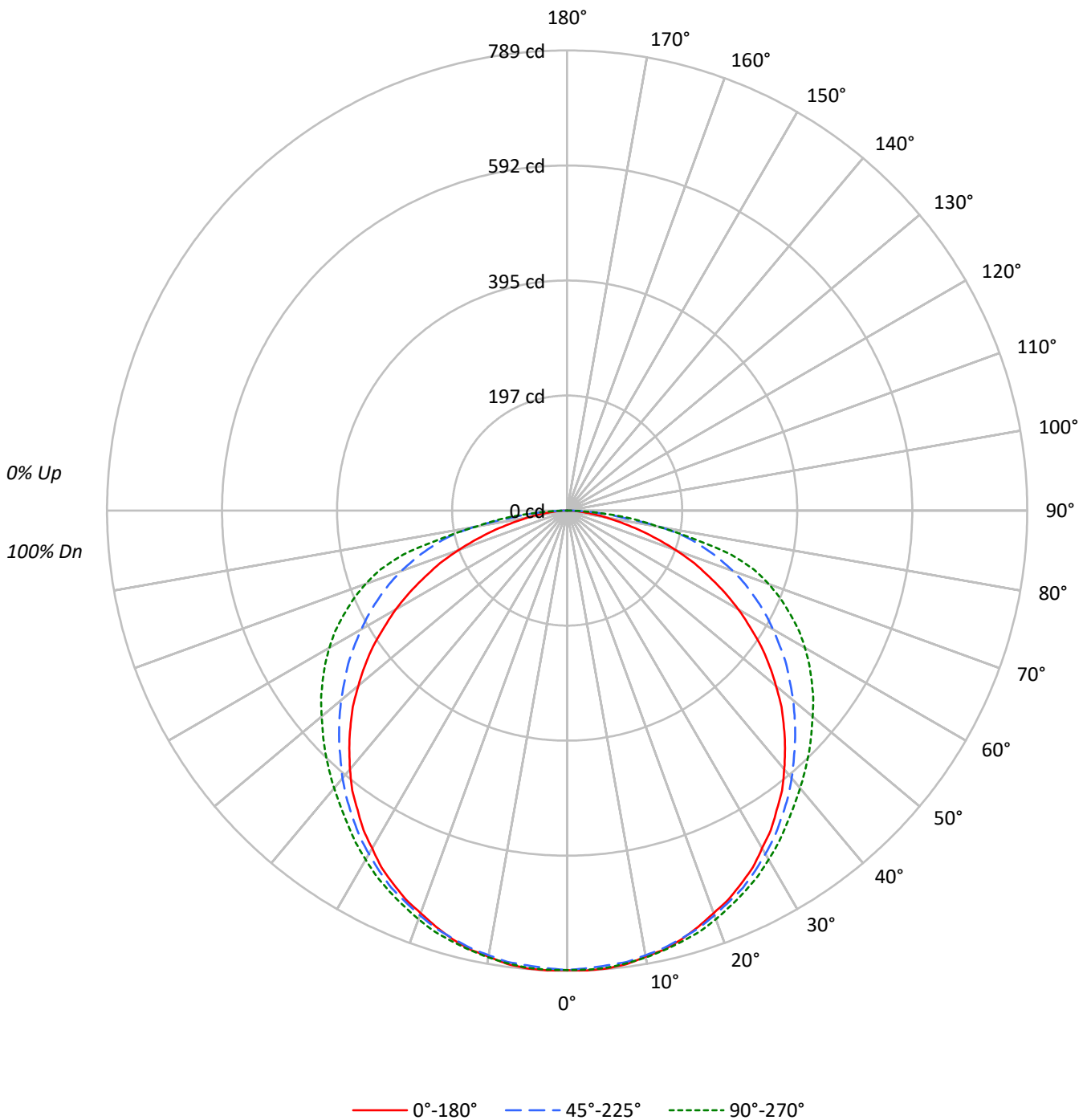
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1060	1060	1060
5°	1064	1057	1063
10°	1061	1058	1063
15°	1059	1058	1065
20°	1052	1057	1068
25°	1048	1059	1070
30°	1039	1056	1074
35°	1029	1053	1078
40°	1017	1052	1091
45°	1000	1052	1116
50°	978	1059	1150
55°	953	1076	1201
60°	913	1097	1267
65°	855	1136	1345
70°	777	1188	1447
75°	659	1253	1512
80°	520	1261	1223
85°	384	959	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.0
10°-20°	215.1	8.6
20°-30°	328.9	13.1
30°-40°	402.1	16.0
40°-50°	428.6	17.1
50°-60°	409.8	16.4
60°-70°	347.1	13.9
70°-80°	233.3	9.3
80°-90°	65.8	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°	618.8	24.7
0°-40°	1020.9	40.7
0°-60°	1859.3	74.2
0°-90°	2505.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	788	787	783	787	787	75
15°	761	761	759	766	764	214
25°	706	708	713	720	721	325
35°	626	631	641	654	656	392
45°	526	534	553	577	587	405
55°	406	421	459	495	512	362
65°	268	296	357	404	422	266
75°	127	173	241	282	291	136
85°	25	51	62	67	70	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	787.9	787.9	787.9	787.9	787.9
2.5°	789.2	789.2	785.4	787.9	787.9
5°	787.9	786.7	782.9	786.7	786.7
7.5°	784.2	782.9	780.5	784.2	782.9
10°	776.7	776.7	774.2	778.0	778.0
12.5°	770.5	769.3	768.0	773.0	771.8
15°	760.6	760.6	759.3	765.5	764.3
17.5°	748.1	749.4	750.6	755.6	756.8
20°	734.5	737.0	738.2	745.7	745.7
22.5°	722.1	723.3	725.8	733.2	733.2
25°	705.9	708.4	713.4	719.6	720.8
27.5°	689.7	691.0	697.2	705.9	707.1
30°	668.6	672.3	679.8	689.7	691.0
32.5°	650.0	653.7	662.4	672.3	674.8
35°	626.4	631.3	641.3	653.7	656.2
37.5°	605.2	609.0	621.4	635.1	638.8
40°	579.1	586.6	599.0	615.2	621.4
42.5°	553.0	560.5	575.4	596.5	604.0
45°	525.7	534.4	553.0	576.6	586.6
47.5°	498.4	508.3	529.4	556.8	567.9
50°	467.3	479.7	505.8	536.9	549.3
52.5°	437.5	452.4	481.0	515.8	531.9
55°	406.4	421.3	458.6	494.6	512.0
57.5°	371.6	391.5	432.5	473.5	492.1
60°	339.3	357.9	407.6	452.4	471.0
62.5°	304.5	329.3	382.8	430.0	448.6
65°	268.4	295.8	356.7	403.9	422.5
67.5°	236.1	266.0	330.6	377.8	396.4
70°	197.6	234.9	302.0	349.2	367.9
72.5°	161.6	202.6	272.2	318.1	335.5
75°	126.8	172.7	241.1	282.1	290.8
77.5°	94.5	142.9	208.8	226.2	220.0
80°	67.1	114.3	162.8	154.1	157.8
82.5°	43.5	87.0	100.7	114.3	118.1
85°	24.9	51.0	62.1	67.1	69.6
87.5°	11.2	18.6	24.9	24.9	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)