

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: P263631

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-RDP-UNV-L93050-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627.7 lumens
Efficiency: N/A
Efficacy: 82.9 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

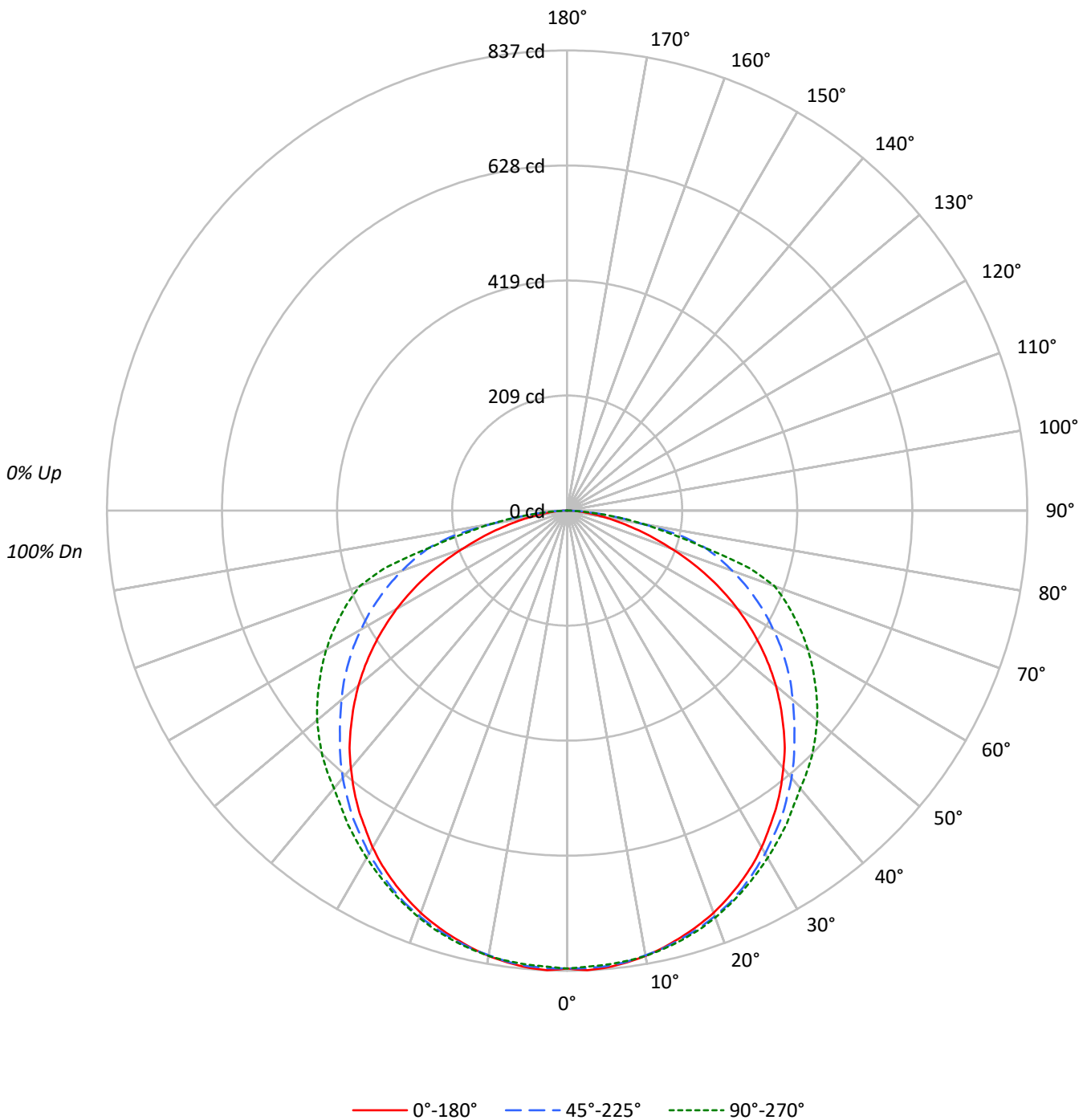
Input Watts (W): 31.688262
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	58	56					56			
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	41	32	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°	1121	1121	1121
5°	1127	1123	1120
10°	1124	1122	1124
15°	1119	1122	1126
20°	1115	1124	1128
25°	1108	1123	1129
30°	1099	1119	1133
35°	1088	1118	1143
40°	1075	1115	1159
45°	1058	1112	1199
50°	1037	1121	1243
55°	1007	1141	1293
60°	964	1166	1361
65°	898	1202	1450
70°	794	1257	1578
75°	666	1345	1325
80°	532	1062	1103
85°	420	719	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	3.0
10°-20°	227.4	8.7
20°-30°	347.3	13.2
30°-40°	424.6	16.2
40°-50°	454.5	17.3
50°-60°	435.9	16.6
60°-70°	368.1	14.0
70°-80°	235.2	9.0
80°-90°	55.6	2.1
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°	653.7	24.9
0°-40°	1078.3	41.0
0°-60°	1968.7	74.9
0°-90°	2627.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	834	829	832	830	829	79
15°	803	801	806	808	808	227
25°	746	745	757	759	761	344
35°	662	667	680	689	696	414
45°	556	565	585	612	630	429
55°	429	444	486	530	551	383
65°	282	309	378	431	455	278
75°	128	182	259	264	255	138
85°	27	45	47	45	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	833.0	833.0	833.0	833.0	833.0
2.5°	836.9	831.7	833.0	833.0	830.4
5°	834.3	829.1	831.7	830.4	829.1
7.5°	829.1	825.2	827.8	827.8	826.5
10°	822.6	818.8	821.4	822.6	822.6
12.5°	813.6	811.0	814.9	814.9	816.2
15°	803.2	800.7	805.8	808.4	808.4
17.5°	791.6	790.3	796.8	798.1	799.4
20°	778.7	777.4	785.1	785.1	787.7
22.5°	763.1	761.9	772.2	772.2	774.8
25°	746.3	745.0	756.7	759.3	760.6
27.5°	728.2	726.9	738.6	742.5	745.0
30°	707.5	707.5	720.5	725.6	729.5
32.5°	684.2	688.1	699.8	707.5	712.7
35°	662.3	667.4	680.4	689.4	695.9
37.5°	637.7	642.9	657.1	668.7	676.5
40°	611.8	618.3	635.1	648.0	659.7
42.5°	585.9	592.4	610.5	629.9	645.4
45°	556.2	565.2	584.6	611.8	629.9
47.5°	526.4	535.5	560.1	593.7	611.8
50°	495.4	505.7	535.5	574.3	593.7
52.5°	463.1	474.7	512.2	553.6	573.0
55°	429.4	443.7	486.3	530.3	551.0
57.5°	394.5	410.0	460.5	507.0	529.0
60°	358.3	377.7	433.3	482.5	505.7
62.5°	320.8	344.1	406.2	456.6	481.2
65°	282.0	309.1	377.7	430.7	455.3
67.5°	241.9	278.1	349.2	404.9	429.4
70°	201.8	244.5	319.5	376.4	401.0
72.5°	164.3	213.4	289.7	342.8	347.9
75°	128.1	182.4	258.7	263.9	254.8
77.5°	95.7	151.3	213.4	190.1	188.8
80°	68.6	121.6	137.1	141.0	142.3
82.5°	45.3	91.8	89.2	91.8	90.5
85°	27.2	45.3	46.6	45.3	42.7
87.5°	12.9	16.8	12.9	11.6	10.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)