

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: P263083

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263083
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2696.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

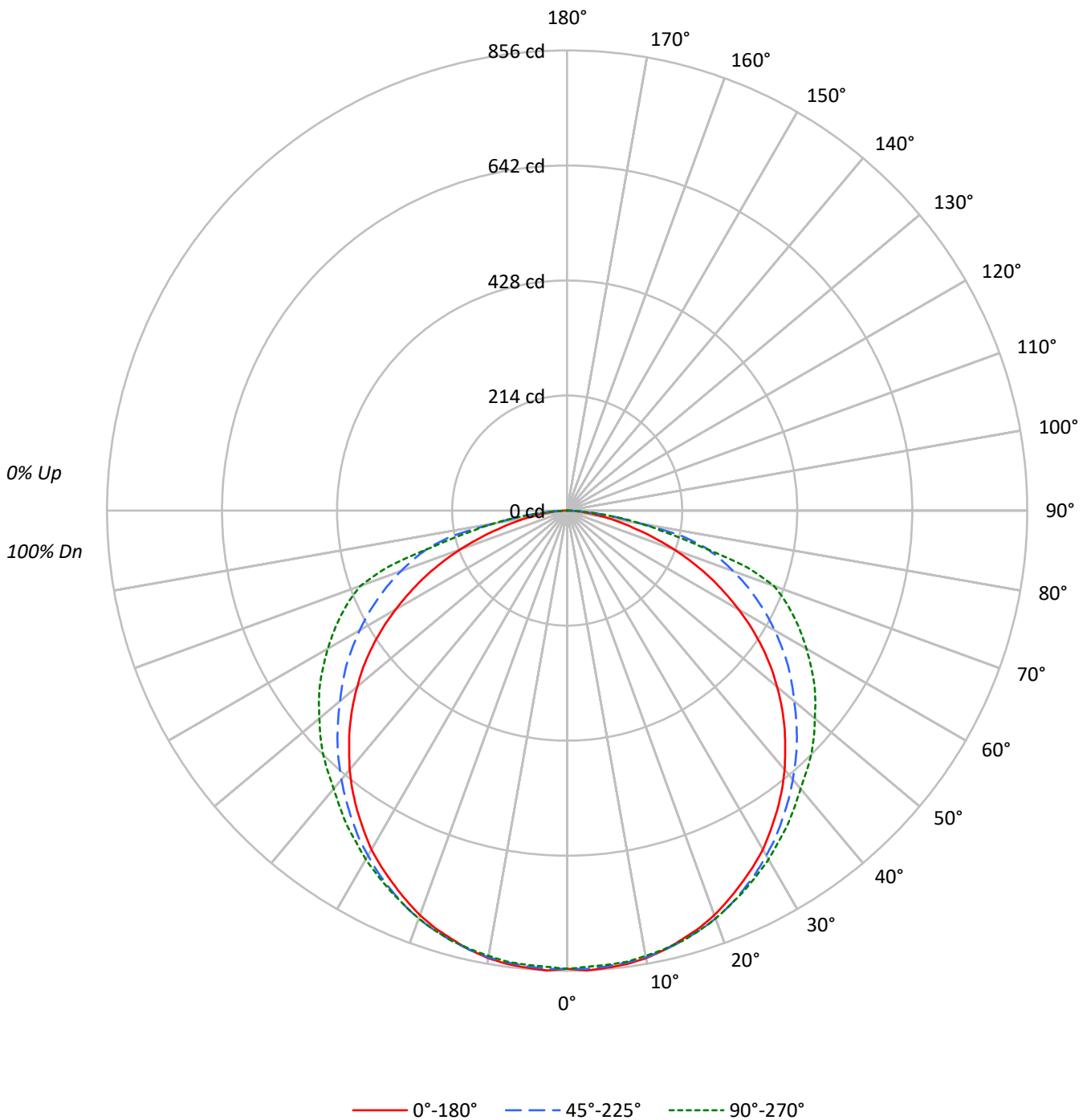
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1147	1147	1147
5°	1153	1149	1145
10°	1155	1153	1149
15°	1150	1154	1154
20°	1146	1156	1156
25°	1137	1154	1158
30°	1132	1151	1164
35°	1119	1148	1173
40°	1105	1147	1186
45°	1089	1150	1222
50°	1067	1154	1259
55°	1039	1176	1316
60°	993	1199	1383
65°	931	1237	1481
70°	833	1293	1611
75°	688	1383	1332
80°	561	1068	1079
85°	451	710	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.0
10°-20°	233.6	8.7
20°-30°	357.0	13.2
30°-40°	436.6	16.2
40°-50°	467.1	17.3
50°-60°	447.3	16.6
60°-70°	378.4	14.0
70°-80°	239.9	8.9
80°-90°	55.2	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°	671.5	24.9
0°-40°	1108.1	41.1
0°-60°	2022.5	75.0
0°-90°	2696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	854	850	851	850	848	81
15°	826	824	829	829	829	233
25°	766	766	777	780	780	353
35°	681	685	699	709	714	426
45°	572	582	604	629	642	441
55°	443	457	501	543	561	395
65°	292	320	388	441	465	288
75°	132	187	266	265	256	144
85°	29	45	46	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.3	852.3	852.3	852.3	852.3
2.5°	856.4	852.3	853.6	852.3	849.5
5°	853.6	849.5	850.9	849.5	848.1
7.5°	850.9	846.7	848.1	846.7	846.7
10°	845.3	841.1	843.9	842.5	841.1
12.5°	836.9	834.2	836.9	835.5	835.5
15°	825.8	824.4	828.6	828.6	828.6
17.5°	814.7	813.3	818.8	818.8	818.8
20°	800.7	799.3	807.7	807.7	807.7
22.5°	784.0	782.6	793.8	793.8	793.8
25°	765.9	765.9	777.1	779.8	779.8
27.5°	747.8	747.8	760.3	764.5	764.5
30°	728.3	728.3	740.9	746.4	749.2
32.5°	704.6	707.4	721.4	728.3	731.1
35°	681.0	685.1	699.1	708.8	714.4
37.5°	655.9	660.1	676.8	687.9	694.9
40°	629.4	635.0	653.1	667.0	675.4
42.5°	600.2	608.6	629.4	647.5	658.7
45°	572.3	582.1	604.4	629.4	642.0
47.5°	541.7	552.9	577.9	609.9	622.5
50°	509.7	520.8	551.5	587.7	601.6
52.5°	477.7	490.2	526.4	565.4	582.1
55°	442.8	456.8	501.3	543.1	561.2
57.5°	406.6	423.3	473.5	518.0	537.5
60°	369.0	389.9	445.6	493.0	513.9
62.5°	330.0	355.1	417.8	467.9	490.2
65°	292.4	320.3	388.5	441.4	465.1
67.5°	252.1	286.9	359.3	416.4	438.7
70°	211.7	252.1	328.6	387.1	409.4
72.5°	171.3	220.0	298.0	350.9	350.9
75°	132.3	186.6	266.0	264.6	256.2
77.5°	100.3	156.0	218.6	186.6	188.0
80°	72.4	125.3	137.9	137.9	139.3
82.5°	48.7	96.1	89.1	87.7	90.5
85°	29.2	44.6	46.0	41.8	43.2
87.5°	13.9	15.3	12.5	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)