

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: P263893

Luminaire Tested: **24CZ-LD5-40SE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263893
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2670.0 lumens
Efficiency: N/A
Efficacy: 83.9 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

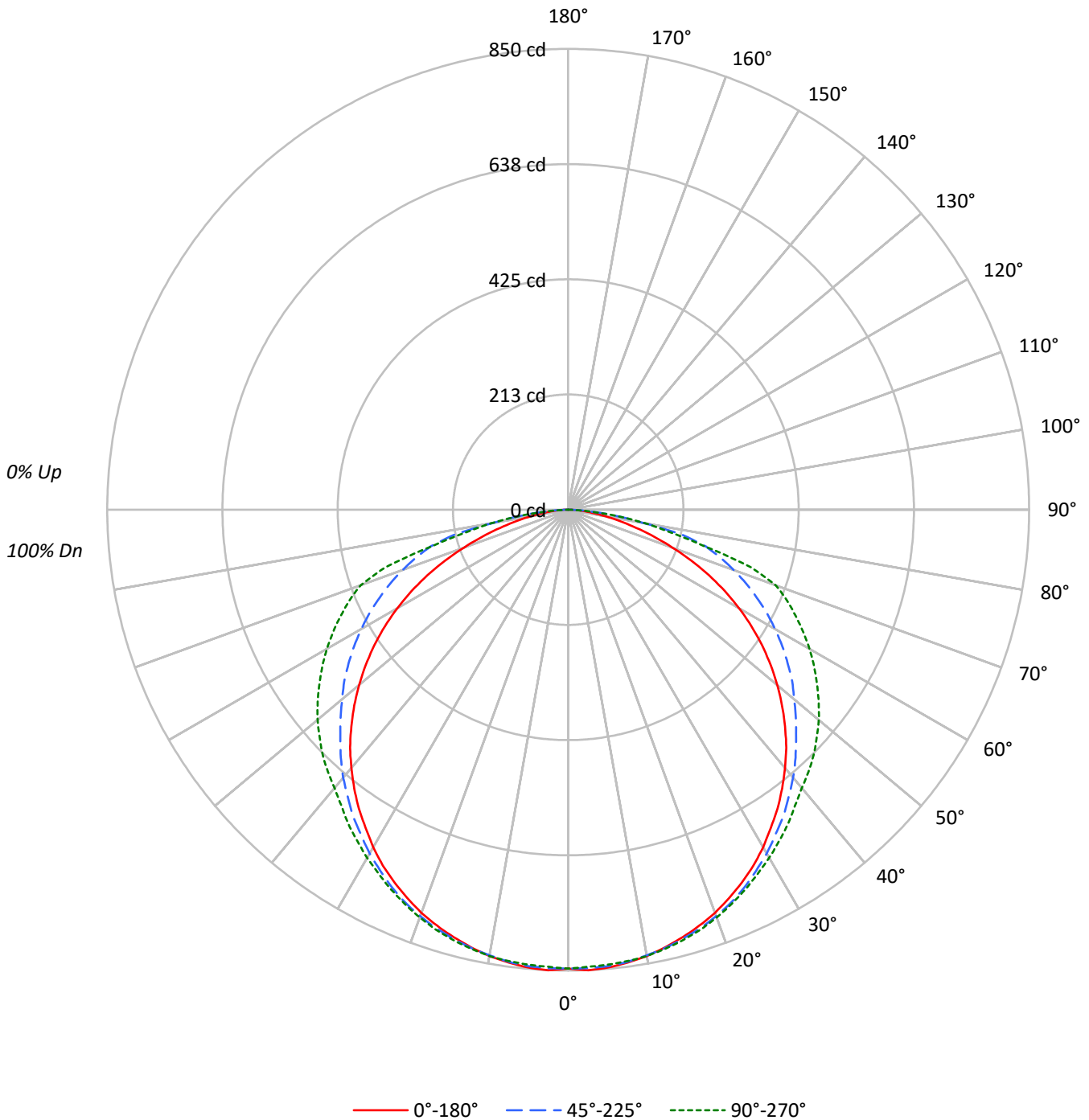
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1139	1139	1139
5°	1145	1141	1138
10°	1142	1140	1142
15°	1137	1141	1144
20°	1133	1142	1146
25°	1126	1141	1147
30°	1117	1137	1152
35°	1105	1135	1161
40°	1092	1133	1177
45°	1075	1130	1218
50°	1054	1139	1263
55°	1023	1159	1313
60°	980	1185	1383
65°	912	1222	1473
70°	806	1277	1603
75°	676	1367	1346
80°	540	1079	1120
85°	426	730	670



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	3.0
10°-20°	231.0	8.7
20°-30°	352.9	13.2
30°-40°	431.4	16.2
40°-50°	461.8	17.3
50°-60°	443.0	16.6
60°-70°	374.0	14.0
70°-80°	239.0	9.0
80°-90°	56.5	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°	664.2	24.9
0°-40°	1095.7	41.0
0°-60°	2000.4	74.9
0°-90°	2670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	848	842	845	844	842	81
15°	816	814	819	821	821	230
25°	758	757	769	772	773	350
35°	673	678	691	700	707	421
45°	565	574	594	622	640	436
55°	436	451	494	539	560	389
65°	286	314	384	438	463	283
75°	130	185	263	268	259	140
85°	28	46	47	46	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	846.4	846.4	846.4	846.4	846.4
2.5°	850.4	845.1	846.4	846.4	843.8
5°	847.7	842.5	845.1	843.8	842.5
7.5°	842.5	838.5	841.2	841.2	839.8
10°	835.9	832.0	834.6	835.9	835.9
12.5°	826.7	824.1	828.0	828.0	829.3
15°	816.2	813.6	818.8	821.4	821.4
17.5°	804.4	803.0	809.6	810.9	812.2
20°	791.2	789.9	797.8	797.8	800.4
22.5°	775.4	774.1	784.6	784.6	787.3
25°	758.4	757.0	768.9	771.5	772.8
27.5°	740.0	738.6	750.5	754.4	757.0
30°	718.9	718.9	732.1	737.3	741.3
32.5°	695.3	699.2	711.0	718.9	724.2
35°	672.9	678.2	691.3	700.5	707.1
37.5°	648.0	653.2	667.7	679.5	687.4
40°	621.7	628.2	645.3	658.5	670.3
42.5°	595.4	602.0	620.4	640.1	655.8
45°	565.2	574.4	594.1	621.7	640.1
47.5°	534.9	544.1	569.1	603.3	621.7
50°	503.4	513.9	544.1	583.6	603.3
52.5°	470.5	482.3	520.5	562.5	582.2
55°	436.3	450.8	494.2	538.9	559.9
57.5°	400.9	416.6	467.9	515.2	537.6
60°	364.1	383.8	440.3	490.2	513.9
62.5°	325.9	349.6	412.7	463.9	488.9
65°	286.5	314.1	383.8	437.7	462.6
67.5°	245.8	282.6	354.9	411.4	436.3
70°	205.0	248.4	324.6	382.5	407.4
72.5°	166.9	216.9	294.4	348.3	353.5
75°	130.1	185.3	262.9	268.1	258.9
77.5°	97.3	153.8	216.9	193.2	191.9
80°	69.7	123.5	139.3	143.3	144.6
82.5°	46.0	93.3	90.7	93.3	92.0
85°	27.6	46.0	47.3	46.0	43.4
87.5°	13.1	17.1	13.1	11.8	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)