

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: P263849

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263849
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-LD5-70-RDP-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.0 lumens
Efficiency: N/A
Efficacy: 71.7 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

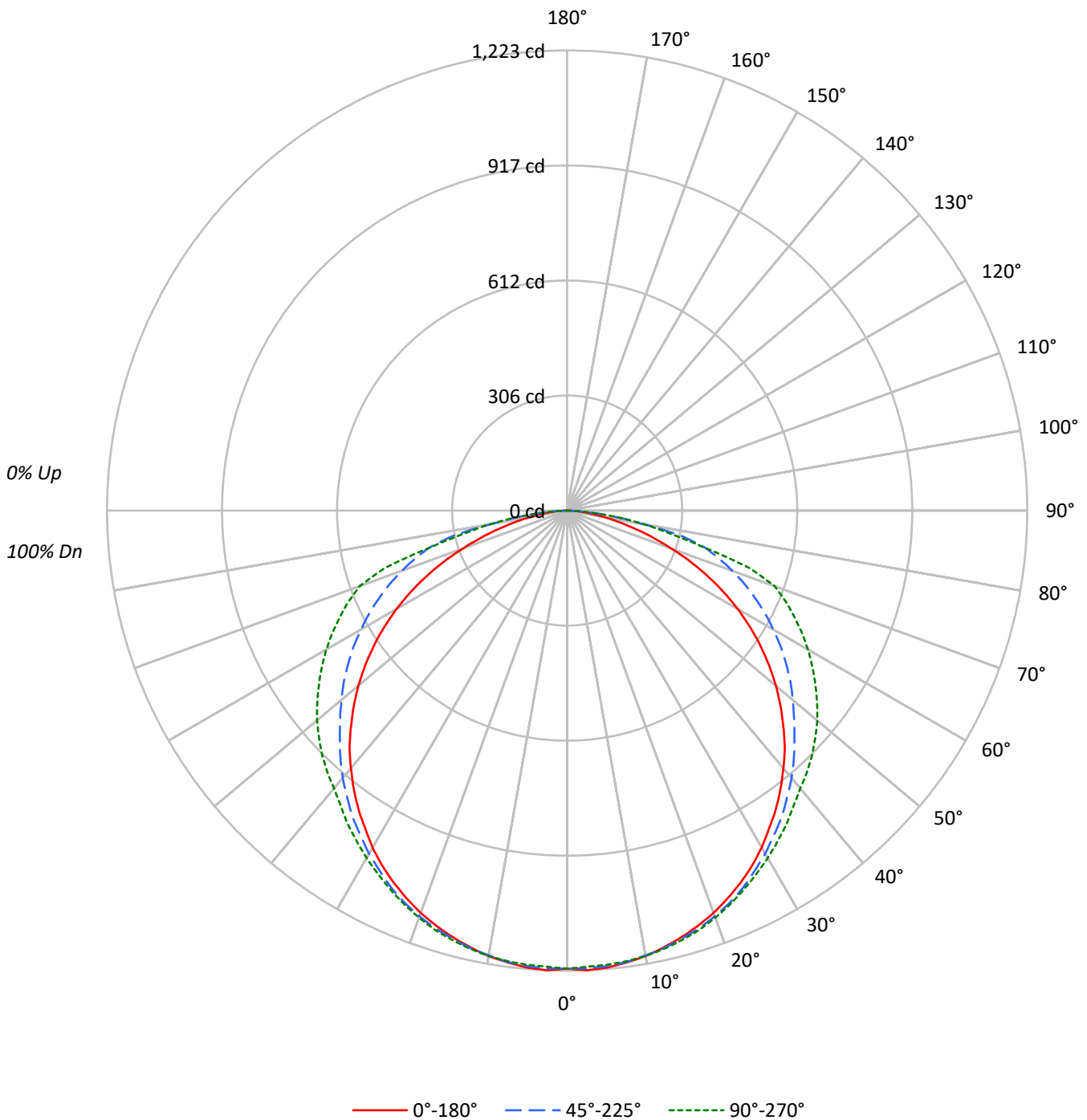
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1638	1638	1638
5°	1647	1642	1636
10°	1643	1640	1643
15°	1635	1640	1646
20°	1629	1643	1648
25°	1619	1642	1650
30°	1606	1636	1656
35°	1590	1633	1670
40°	1570	1630	1693
45°	1547	1626	1752
50°	1515	1638	1816
55°	1472	1667	1889
60°	1409	1704	1989
65°	1312	1757	2118
70°	1160	1837	2305
75°	973	1965	1936
80°	776	1553	1611
85°	613	1050	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.0
10°-20°	332.3	8.7
20°-30°	507.5	13.2
30°-40°	620.5	16.2
40°-50°	664.2	17.3
50°-60°	637.1	16.6
60°-70°	537.9	14.0
70°-80°	343.8	9.0
80°-90°	81.3	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°	955.3	24.9
0°-40°	1575.8	41.0
0°-60°	2877.0	74.9
0°-90°	3840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1217	1217	1217	1217	1217	
5°	1219	1212	1215	1214	1212	116
15°	1174	1170	1178	1181	1181	331
25°	1091	1089	1106	1110	1112	503
35°	968	975	994	1008	1017	605
45°	813	826	854	894	920	627
55°	628	648	711	775	805	560
65°	412	452	552	629	665	406
75°	187	266	378	386	372	201
85°	40	66	68	66	62	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1217.3	1217.3	1217.3	1217.3	1217.3
2.5°	1223.0	1215.4	1217.3	1217.3	1213.5
5°	1219.2	1211.6	1215.4	1213.5	1211.6
7.5°	1211.6	1206.0	1209.8	1209.8	1207.9
10°	1202.2	1196.5	1200.3	1202.2	1202.2
12.5°	1189.0	1185.2	1190.8	1190.8	1192.7
15°	1173.8	1170.1	1177.6	1181.4	1181.4
17.5°	1156.8	1154.9	1164.4	1166.3	1168.2
20°	1137.9	1136.0	1147.4	1147.4	1151.2
22.5°	1115.2	1113.3	1128.5	1128.5	1132.3
25°	1090.7	1088.8	1105.8	1109.6	1111.5
27.5°	1064.2	1062.3	1079.3	1085.0	1088.8
30°	1034.0	1034.0	1052.9	1060.4	1066.1
32.5°	999.9	1005.6	1022.6	1034.0	1041.5
35°	967.8	975.4	994.3	1007.5	1016.9
37.5°	931.9	939.4	960.2	977.3	988.6
40°	894.1	903.5	928.1	947.0	964.0
42.5°	856.3	865.7	892.2	920.5	943.2
45°	812.8	826.0	854.4	894.1	920.5
47.5°	769.3	782.6	818.5	867.6	894.1
50°	724.0	739.1	782.6	839.3	867.6
52.5°	676.7	693.7	748.5	809.0	837.4
55°	627.6	648.4	710.7	775.0	805.2
57.5°	576.5	599.2	672.9	741.0	773.1
60°	523.6	551.9	633.2	705.1	739.1
62.5°	468.8	502.8	593.5	667.3	703.2
65°	412.1	451.8	551.9	629.4	665.4
67.5°	353.5	406.4	510.4	591.6	627.6
70°	294.9	357.3	466.9	550.1	586.0
72.5°	240.1	311.9	423.4	500.9	508.5
75°	187.1	266.5	378.0	385.6	372.4
77.5°	139.9	221.2	311.9	277.9	276.0
80°	100.2	177.7	200.4	206.0	207.9
82.5°	66.2	134.2	130.4	134.2	132.3
85°	39.7	66.2	68.0	66.2	62.4
87.5°	18.9	24.6	18.9	17.0	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)