

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: P#

Luminaire Tested: **24CZ-LD5-35SE-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

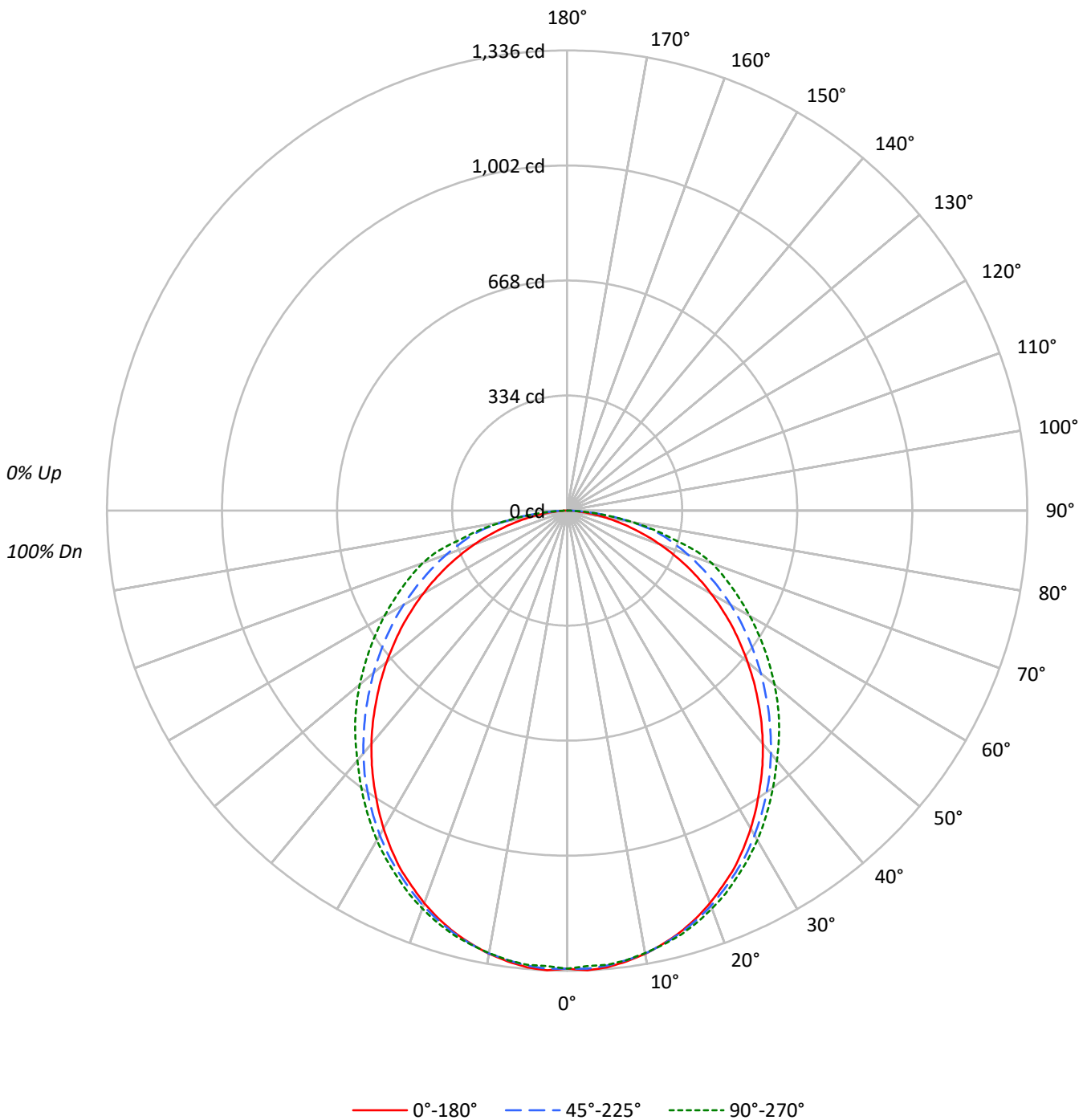
Lumens per Lamp: N/A
Luminaire Lumens: 3673.7 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 28.57
Input Voltage (V): NR
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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1789	1789	1789
5°	1794	1783	1780
10°	1777	1767	1766
15°	1754	1744	1752
20°	1721	1715	1729
25°	1683	1679	1699
30°	1632	1640	1669
35°	1577	1595	1631
40°	1520	1548	1597
45°	1457	1495	1577
50°	1391	1444	1553
55°	1323	1397	1531
60°	1245	1353	1517
65°	1160	1310	1518
70°	1053	1280	1547
75°	912	1268	1382
80°	730	1107	1151
85°	484	717	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.4
10°-20°	357.6	9.7
20°-30°	532.9	14.5
30°-40°	627.3	17.1
40°-50°	637.5	17.4
50°-60°	573.2	15.6
60°-70°	452.8	12.3
70°-80°	287.3	7.8
80°-90°	79.3	2.2
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°	1016.3	27.7
0°-40°	1643.6	44.7
0°-60°	2854.3	77.7
0°-90°	3673.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1331	1320	1326	1324	1324	126
15°	1268	1262	1270	1274	1275	357
25°	1147	1145	1159	1166	1171	527
35°	977	983	1007	1018	1028	611
45°	785	796	828	852	870	606
55°	584	599	640	682	699	522
65°	384	403	458	508	528	380
75°	192	225	292	318	315	204
85°	40	70	75	68	68	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.9	1329.9	1329.9	1329.9	1329.9
2.5°	1336.0	1326.3	1331.2	1328.7	1323.8
5°	1331.2	1320.2	1326.3	1323.8	1323.8
7.5°	1320.2	1311.6	1316.5	1315.3	1316.5
10°	1306.7	1298.1	1305.5	1305.5	1304.3
12.5°	1288.4	1281.0	1289.6	1289.6	1290.8
15°	1267.6	1261.5	1270.0	1273.7	1274.9
17.5°	1241.9	1235.8	1246.8	1250.5	1254.1
20°	1212.6	1210.1	1221.1	1224.8	1229.7
22.5°	1179.6	1179.6	1190.6	1195.5	1202.8
25°	1146.6	1145.4	1158.8	1166.1	1171.0
27.5°	1107.5	1108.7	1125.8	1133.1	1139.2
30°	1065.9	1068.3	1087.9	1096.5	1105.0
32.5°	1021.9	1026.8	1048.8	1058.6	1067.1
35°	976.7	982.8	1007.2	1018.2	1028.0
37.5°	931.4	940.0	965.7	976.7	987.7
40°	883.8	891.1	920.4	933.9	947.3
42.5°	834.9	844.7	874.0	893.5	909.4
45°	784.8	795.8	827.5	852.0	870.3
47.5°	734.6	749.3	779.9	812.9	828.8
50°	684.5	699.2	733.4	770.1	786.0
52.5°	633.2	647.9	687.0	724.9	742.0
55°	584.3	599.0	640.5	682.1	699.2
57.5°	532.9	548.8	595.3	638.1	655.2
60°	482.8	498.7	548.8	594.1	612.4
62.5°	433.9	451.1	503.6	551.3	569.6
65°	383.8	403.4	458.4	508.5	528.1
67.5°	334.9	356.9	414.4	466.9	487.7
70°	286.0	311.7	372.8	426.6	447.4
72.5°	238.4	266.5	331.3	385.0	396.0
75°	191.9	224.9	292.1	317.8	315.4
77.5°	147.9	184.6	248.1	253.0	260.4
80°	107.6	147.9	185.8	195.6	190.7
82.5°	70.9	111.2	133.2	128.3	127.1
85°	40.3	69.7	74.6	68.5	68.5
87.5°	17.1	28.1	24.4	18.3	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)