

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: **22CZ-LD5-32SE-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 (P25712)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-32SE-S-UNV-L840-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

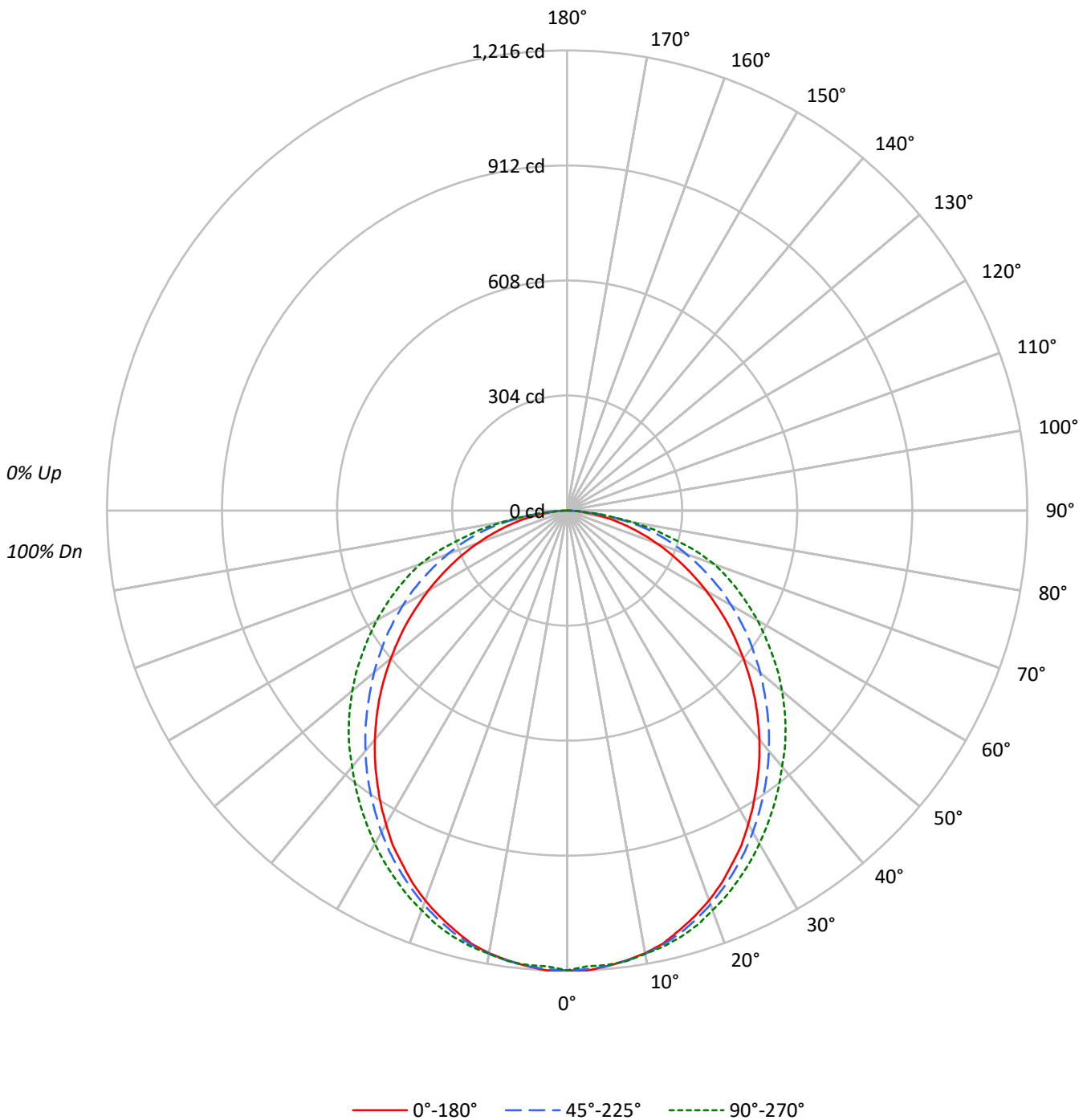
Lumens per Lamp: N/A  
Luminaire Lumens: 3332.4 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 30.53  
Input Voltage (V): NR  
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	64	60	58
4	82	70	61	54	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	56	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	36	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	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3269	3269	3269
5°	3250	3244	3242
10°	3217	3209	3221
15°	3155	3160	3203
20°	3084	3092	3160
25°	2991	3014	3116
30°	2891	2929	3070
35°	2779	2841	3023
40°	2666	2749	2979
45°	2541	2657	2959
50°	2403	2571	2928
55°	2264	2489	2894
60°	2101	2402	2878
65°	1933	2310	2863
70°	1738	2204	2857
75°	1501	2067	2538
80°	1217	1735	2049
85°	817	1011	1037



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.7	3.4
10°-20°	325.9	9.8
20°-30°	484.0	14.5
30°-40°	569.8	17.1
40°-50°	580.9	17.4
50°-60°	523.9	15.7
60°-70°	412.6	12.4
70°-80°	254.5	7.6
80°-90°	66.1	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°	924.7	27.7
0°-40°	1494.4	44.8
0°-60°	2599.1	78.0
0°-90°	3332.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1208	1210	1208	1207	1205	115
15°	1148	1152	1156	1162	1165	324
25°	1031	1037	1048	1066	1074	475
35°	876	885	908	936	952	548
45°	701	712	748	792	816	540
55°	517	535	584	637	661	461
65°	336	360	418	471	498	333
75°	171	200	251	280	290	183
85°	42	53	59	56	53	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1214.9	1214.9	1214.9	1214.9	1214.9
2.5°	1216.5	1216.5	1213.3	1210.1	1205.3
5°	1208.5	1210.1	1208.5	1206.9	1205.3
7.5°	1198.9	1200.5	1200.5	1200.5	1200.5
10°	1187.6	1189.2	1189.2	1189.2	1189.2
12.5°	1171.6	1173.2	1174.8	1176.4	1179.6
15°	1147.6	1152.4	1155.6	1162.0	1165.2
17.5°	1123.6	1128.4	1133.2	1141.2	1147.6
20°	1096.4	1099.6	1107.6	1117.2	1123.6
22.5°	1066.0	1070.8	1078.8	1091.6	1101.2
25°	1030.8	1037.2	1048.4	1066.0	1074.0
27.5°	997.2	1002.0	1016.4	1035.6	1046.8
30°	957.2	963.6	981.2	1005.2	1016.4
32.5°	917.1	925.1	944.4	971.6	984.4
35°	875.5	885.1	907.5	936.4	952.4
37.5°	833.9	843.5	869.1	901.1	918.7
40°	790.7	800.3	829.1	864.3	883.5
42.5°	745.9	757.1	789.1	829.1	851.5
45°	701.1	712.3	747.5	792.3	816.3
47.5°	654.6	667.5	705.9	755.5	779.5
50°	608.2	622.6	665.9	717.1	741.1
52.5°	561.8	577.8	624.2	677.1	702.7
55°	517.0	534.6	584.2	637.0	661.0
57.5°	469.0	489.8	542.6	593.8	621.0
60°	424.2	446.6	501.0	552.2	581.0
62.5°	379.3	403.4	461.0	512.2	539.4
65°	336.1	360.1	417.8	470.6	497.8
67.5°	292.9	320.1	376.1	429.0	456.2
70°	251.3	280.1	334.5	385.7	413.0
72.5°	211.3	240.1	294.5	342.5	358.5
75°	171.3	200.1	251.3	280.1	289.7
77.5°	134.5	161.7	206.5	224.1	236.9
80°	100.8	124.8	156.9	168.1	169.7
82.5°	68.8	89.6	108.8	110.4	108.8
85°	41.6	52.8	59.2	56.0	52.8
87.5°	19.2	20.8	19.2	12.8	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)