

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-RDP-UNV-L850-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 (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-35SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2565.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

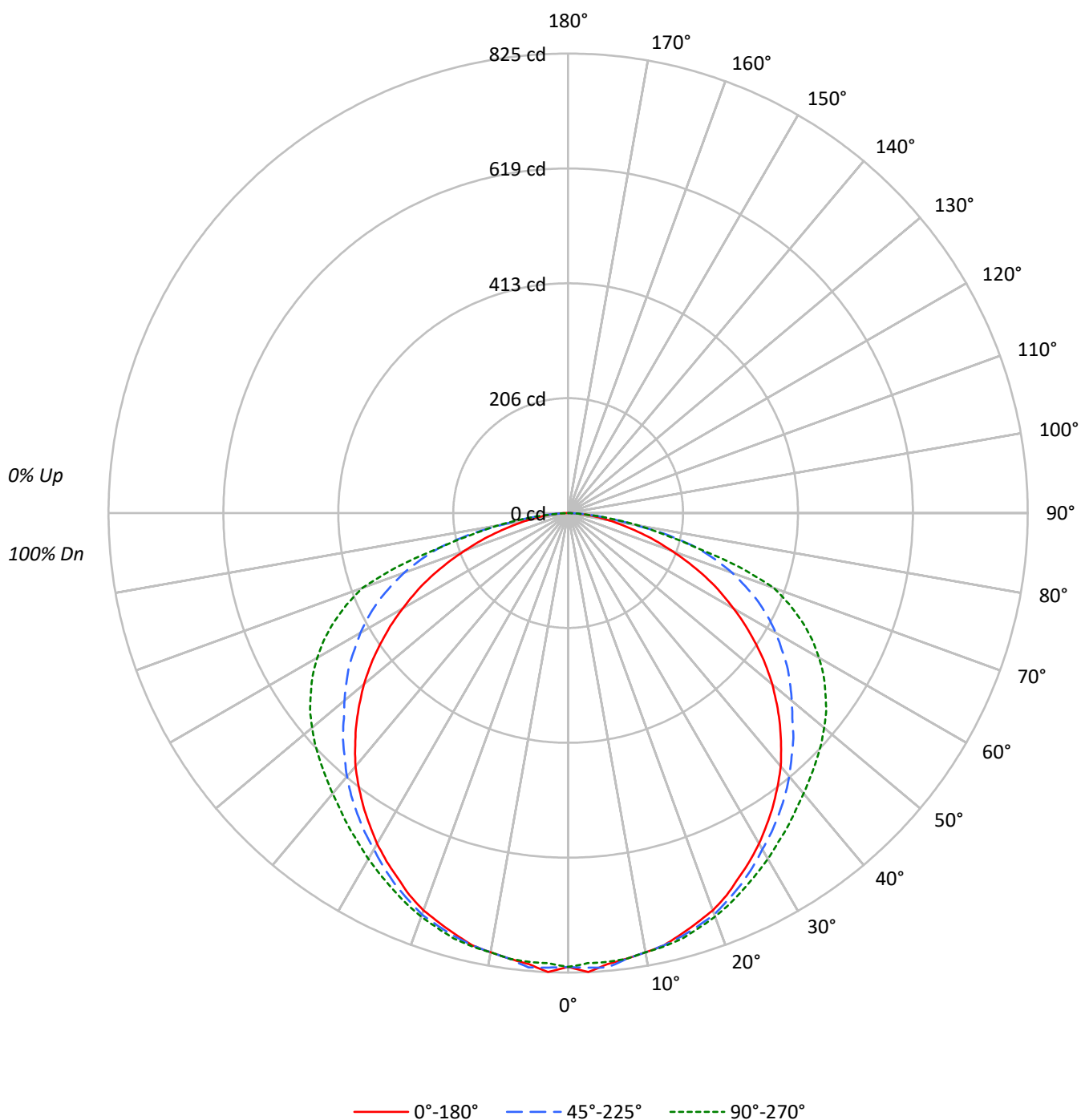
Input Watts (W): 28.57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1096	1096	1096
5°	1096	1101	1088
10°	1089	1084	1085
15°	1083	1081	1087
20°	1077	1077	1084
25°	1061	1065	1081
30°	1050	1051	1083
35°	1036	1044	1091
40°	1021	1039	1108
45°	999	1033	1141
50°	972	1032	1185
55°	934	1047	1234
60°	884	1061	1288
65°	825	1076	1335
70°	726	1074	1358
75°	616	1029	1030
80°	500	700	770
85°	383	383	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.0
10°-20°	222.2	8.7
20°-30°	338.6	13.2
30°-40°	414.3	16.1
40°-50°	445.8	17.4
50°-60°	431.8	16.8
60°-70°	365.8	14.3
70°-80°	221.1	8.6
80°-90°	48.6	1.9
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°	638.1	24.9
0°-40°	1052.4	41.0
0°-60°	1930.0	75.2
0°-90°	2565.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2565.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	813	813	819	815	809	77
15°	783	785	787	789	791	221
25°	723	727	735	741	745	334
35°	642	646	660	677	687	401
45°	538	548	572	608	630	415
55°	412	430	480	536	564	368
65°	273	303	376	436	464	269
75°	130	175	237	241	235	139
85°	32	38	40	38	36	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	814.9	814.9	814.9	814.9	814.9
2.5°	824.8	822.8	816.9	812.9	808.9
5°	812.9	812.9	818.8	814.9	808.9
7.5°	806.9	806.9	806.9	816.9	806.9
10°	800.9	802.9	800.9	808.9	800.9
12.5°	794.9	794.9	794.9	796.9	796.9
15°	783.0	785.0	787.0	789.0	791.0
17.5°	771.0	773.0	777.0	779.0	781.0
20°	759.1	761.1	767.0	767.0	771.0
22.5°	743.1	743.1	751.1	753.1	759.1
25°	723.2	727.2	735.2	741.1	745.1
27.5°	705.3	709.3	717.2	725.2	731.2
30°	685.4	689.3	697.3	709.3	717.2
32.5°	663.4	667.4	679.4	693.3	701.3
35°	641.5	645.5	659.5	677.4	687.4
37.5°	617.6	623.6	639.5	659.5	671.4
40°	593.7	599.7	617.6	639.5	657.5
42.5°	565.8	573.8	593.7	623.6	643.5
45°	537.9	547.9	571.8	607.7	629.6
47.5°	508.0	518.0	545.9	591.7	615.6
50°	478.2	490.1	524.0	573.8	599.7
52.5°	446.3	458.2	502.1	555.9	583.8
55°	412.4	430.3	480.2	535.9	563.8
57.5°	378.5	398.5	454.3	514.0	543.9
60°	342.7	366.6	430.3	490.1	520.0
62.5°	308.8	334.7	404.4	464.2	494.1
65°	272.9	302.8	376.5	436.3	464.2
67.5°	235.1	272.9	344.7	402.4	430.3
70°	197.2	241.1	312.8	366.6	392.5
72.5°	163.4	209.2	276.9	322.8	322.8
75°	129.5	175.3	237.1	241.1	235.1
77.5°	99.6	143.4	185.3	169.3	173.3
80°	73.7	109.6	117.5	123.5	127.5
82.5°	49.8	73.7	75.7	79.7	79.7
85°	31.9	37.9	39.8	37.9	35.9
87.5°	13.9	15.9	12.0	8.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)