

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-LD5-40SE-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-LD5-40SE-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.1 lumens
Efficiency: N/A
Efficacy: 89.7 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

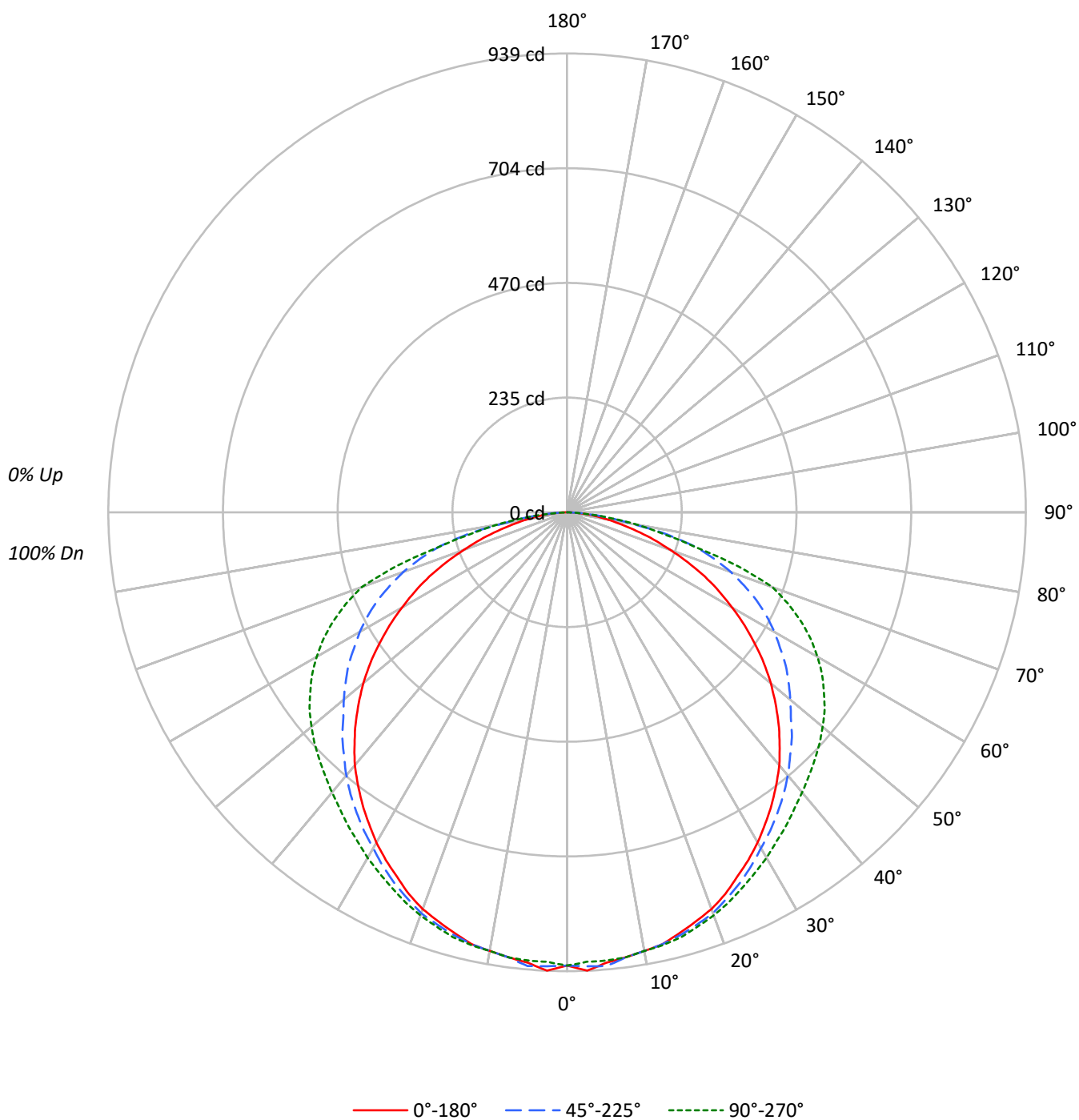
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	1248	1248	1248
5°	1247	1253	1238
10°	1240	1234	1235
15°	1233	1230	1237
20°	1226	1226	1234
25°	1208	1212	1230
30°	1195	1196	1233
35°	1179	1189	1241
40°	1163	1182	1261
45°	1137	1176	1299
50°	1106	1174	1348
55°	1063	1192	1405
60°	1006	1207	1466
65°	939	1225	1519
70°	826	1222	1545
75°	701	1171	1172
80°	569	797	876
85°	436	436	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.0
10°-20°	252.9	8.7
20°-30°	385.4	13.2
30°-40°	471.6	16.1
40°-50°	507.4	17.4
50°-60°	491.5	16.8
60°-70°	416.3	14.3
70°-80°	251.7	8.6
80°-90°	55.3	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°	726.4	24.9
0°-40°	1197.9	41.0
0°-60°	2196.8	75.2
0°-90°	2920.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2920.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	928	928	928	928	928	
5°	925	925	932	928	921	88
15°	891	894	896	898	900	252
25°	823	828	837	844	848	380
35°	730	735	751	771	782	457
45°	612	624	651	692	717	472
55°	469	490	546	610	642	419
65°	311	345	429	497	528	306
75°	147	200	270	274	268	158
85°	36	43	45	43	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.5	927.5	927.5	927.5	927.5
2.5°	938.8	936.5	929.7	925.2	920.7
5°	925.2	925.2	932.0	927.5	920.7
7.5°	918.4	918.4	918.4	929.7	918.4
10°	911.6	913.9	911.6	920.7	911.6
12.5°	904.8	904.8	904.8	907.1	907.1
15°	891.2	893.5	895.7	898.0	900.3
17.5°	877.6	879.9	884.4	886.7	888.9
20°	864.0	866.3	873.1	873.1	877.6
22.5°	845.8	845.8	854.9	857.2	864.0
25°	823.2	827.7	836.8	843.6	848.1
27.5°	802.8	807.3	816.4	825.4	832.2
30°	780.1	784.6	793.7	807.3	816.4
32.5°	755.1	759.7	773.3	789.2	798.2
35°	730.2	734.7	750.6	771.0	782.3
37.5°	703.0	709.8	727.9	750.6	764.2
40°	675.8	682.6	703.0	727.9	748.3
42.5°	644.0	653.1	675.8	709.8	732.5
45°	612.3	623.6	650.8	691.6	716.6
47.5°	578.3	589.6	621.3	673.5	700.7
50°	544.2	557.8	596.4	653.1	682.6
52.5°	508.0	521.6	571.5	632.7	664.4
55°	469.4	489.8	546.5	610.0	641.8
57.5°	430.9	453.5	517.0	585.1	619.1
60°	390.0	417.3	489.8	557.8	591.9
62.5°	351.5	381.0	460.3	528.4	562.4
65°	310.7	344.7	428.6	496.6	528.4
67.5°	267.6	310.7	392.3	458.1	489.8
70°	224.5	274.4	356.0	417.3	446.7
72.5°	185.9	238.1	315.2	367.4	367.4
75°	147.4	199.6	269.9	274.4	267.6
77.5°	113.4	163.3	210.9	192.8	197.3
80°	83.9	124.7	133.8	140.6	145.1
82.5°	56.7	83.9	86.2	90.7	90.7
85°	36.3	43.1	45.4	43.1	40.8
87.5°	15.9	18.1	13.6	9.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)