

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-LD5-65SE-RDP-UNV-L835-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

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-LD5-65SE-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Luminaire Equipment:	<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
	AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
	AS-5443-2	Good	REFLECTOR
	AS-5443-3	Good	DRIVER
	AS-5443-4	Good	UPPER MODULE
	AS-5443-5	Good	LENS
	AS-5443-6	Good	DRIVER 2
	AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4304.7 lumens
Efficiency: N/A
Efficacy: 71.7 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

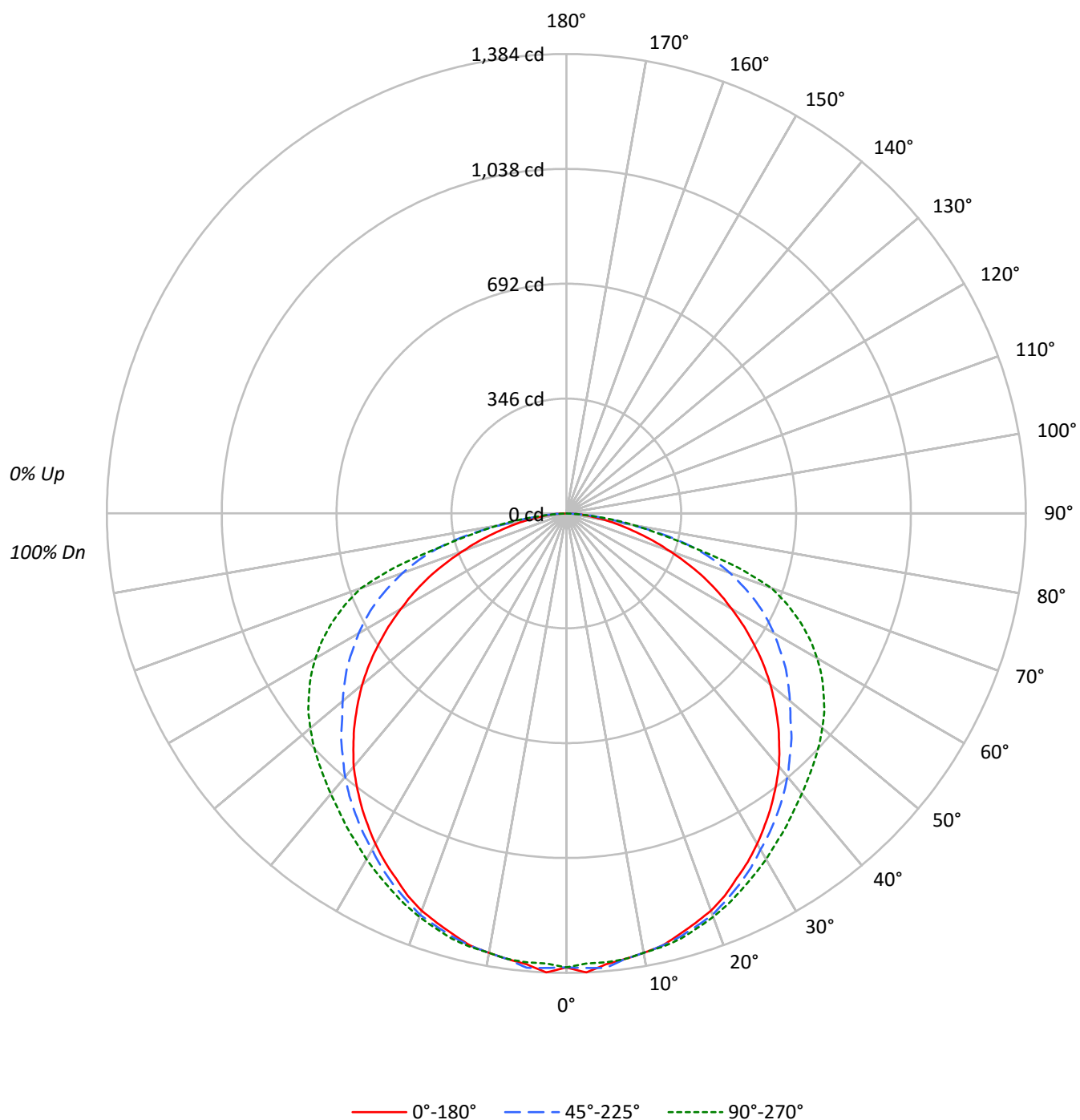
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56		
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47		
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31		
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28		
9	55	41	33	27	54	41	33	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°	1840	1840	1840
5°	1838	1847	1825
10°	1828	1819	1820
15°	1818	1814	1824
20°	1807	1808	1819
25°	1781	1787	1814
30°	1761	1764	1817
35°	1738	1752	1830
40°	1714	1743	1860
45°	1676	1734	1914
50°	1631	1731	1988
55°	1567	1757	2071
60°	1483	1780	2161
65°	1384	1806	2240
70°	1218	1802	2278
75°	1033	1726	1728
80°	839	1175	1291
85°	642	643	591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	3.0
10°-20°	372.8	8.7
20°-30°	568.1	13.2
30°-40°	695.1	16.1
40°-50°	748.0	17.4
50°-60°	724.5	16.8
60°-70°	613.7	14.3
70°-80°	371.0	8.6
80°-90°	81.5	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°	1070.8	24.9
0°-40°	1765.9	41.0
0°-60°	3238.4	75.2
0°-90°	4304.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4304.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1364	1364	1374	1367	1357	130
15°	1314	1317	1320	1324	1327	371
25°	1214	1220	1234	1244	1250	560
35°	1076	1083	1106	1137	1153	673
45°	903	919	959	1020	1056	696
55°	692	722	806	899	946	618
65°	458	508	632	732	779	451
75°	217	294	398	404	394	233
85°	54	64	67	64	60	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.3	1367.3	1367.3	1367.3	1367.3
2.5°	1384.0	1380.6	1370.6	1363.9	1357.2
5°	1363.9	1363.9	1374.0	1367.3	1357.2
7.5°	1353.9	1353.9	1353.9	1370.6	1353.9
10°	1343.9	1347.2	1343.9	1357.2	1343.9
12.5°	1333.8	1333.8	1333.8	1337.2	1337.2
15°	1313.8	1317.1	1320.5	1323.8	1327.2
17.5°	1293.7	1297.1	1303.8	1307.1	1310.4
20°	1273.7	1277.0	1287.0	1287.0	1293.7
22.5°	1246.9	1246.9	1260.3	1263.6	1273.7
25°	1213.5	1220.2	1233.5	1243.6	1250.3
27.5°	1183.4	1190.1	1203.5	1216.8	1226.9
30°	1150.0	1156.7	1170.0	1190.1	1203.5
32.5°	1113.2	1119.9	1139.9	1163.3	1176.7
35°	1076.4	1083.1	1106.5	1136.6	1153.3
37.5°	1036.3	1046.3	1073.1	1106.5	1126.6
40°	996.2	1006.2	1036.3	1073.1	1103.2
42.5°	949.4	962.8	996.2	1046.3	1079.8
45°	902.6	919.3	959.4	1019.6	1056.4
47.5°	852.5	869.2	916.0	992.9	1033.0
50°	802.3	822.4	879.2	962.8	1006.2
52.5°	748.8	768.9	842.4	932.7	979.5
55°	692.0	722.1	805.7	899.3	946.1
57.5°	635.2	668.6	762.2	862.5	912.6
60°	575.0	615.1	722.1	822.4	872.5
62.5°	518.2	561.6	678.6	778.9	829.1
65°	458.0	508.1	631.8	732.1	778.9
67.5°	394.5	458.0	578.3	675.3	722.1
70°	331.0	404.5	524.8	615.1	658.6
72.5°	274.1	351.0	464.7	541.6	541.6
75°	217.3	294.2	397.8	404.5	394.5
77.5°	167.1	240.7	310.9	284.2	290.8
80°	123.7	183.9	197.2	207.3	213.9
82.5°	83.6	123.7	127.0	133.7	133.7
85°	53.5	63.5	66.9	63.5	60.2
87.5°	23.4	26.7	20.1	13.4	10.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)