

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: NEO-RAY

Report Number: P243738

Luminaire Tested: **S125RDR-H1270D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H1270D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430.2 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

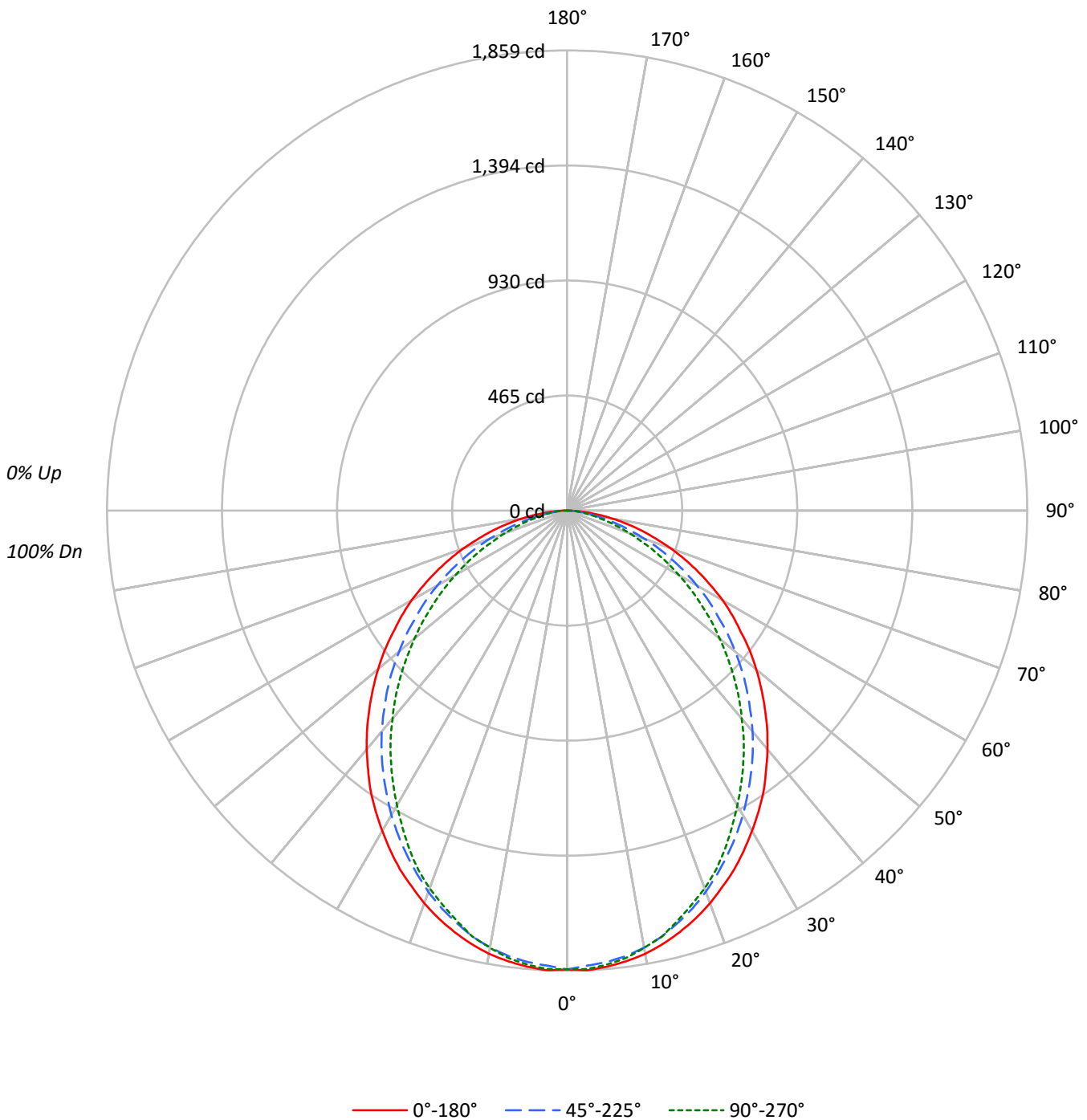
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13173	13173	13173
5°	13195	13063	13138
10°	13118	12936	12946
15°	12965	12692	12633
20°	12765	12394	12284
25°	12539	12029	11832
30°	12263	11653	11284
35°	12009	11239	10767
40°	11686	10813	10185
45°	11354	10328	9581
50°	11024	9792	8899
55°	10629	9199	8181
60°	10308	8594	7406
65°	9811	7871	6555
70°	9258	6887	5592
75°	8518	5753	4550
80°	7490	4449	3745
85°	6377	3678	3458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.9
10°-20°	489.0	11.0
20°-30°	711.6	16.1
30°-40°	814.9	18.4
40°-50°	797.4	18.0
50°-60°	673.2	15.2
60°-70°	471.3	10.6
70°-80°	239.4	5.4
80°-90°	58.9	1.3
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°	1375.1	31.0
0°-40°	2190.0	49.4
0°-60°	3660.6	82.6
0°-90°	4430.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1850	1846	1831	1843	1842	176
15°	1762	1755	1725	1724	1717	497
25°	1599	1580	1534	1518	1509	736
35°	1384	1351	1295	1257	1241	864
45°	1130	1092	1028	973	953	872
55°	858	821	742	683	660	770
65°	583	538	468	410	390	578
75°	310	272	210	175	166	328
85°	78	50	45	42	42	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.5	1853.5	1853.5	1853.5	1853.5
2.5°	1858.8	1854.8	1840.2	1853.5	1853.5
5°	1849.5	1845.5	1830.9	1842.9	1841.5
7.5°	1836.2	1832.3	1815.0	1826.9	1823.0
10°	1817.7	1812.4	1792.5	1799.1	1793.8
12.5°	1792.5	1787.2	1763.3	1766.0	1763.3
15°	1762.0	1755.4	1724.9	1723.5	1716.9
17.5°	1727.5	1718.2	1685.1	1681.1	1670.5
20°	1687.7	1675.8	1638.7	1630.7	1624.1
22.5°	1642.7	1630.7	1587.0	1575.0	1571.1
25°	1598.9	1580.3	1533.9	1518.0	1508.8
27.5°	1547.2	1526.0	1478.3	1457.0	1441.1
30°	1494.2	1470.3	1419.9	1392.1	1374.9
32.5°	1439.8	1412.0	1357.6	1323.1	1308.6
35°	1384.1	1351.0	1295.3	1256.9	1240.9
37.5°	1320.5	1287.3	1231.7	1186.6	1172.0
40°	1259.5	1225.0	1165.4	1116.3	1097.8
42.5°	1195.9	1160.1	1095.1	1043.4	1027.5
45°	1129.6	1092.5	1027.5	973.1	953.2
47.5°	1063.3	1026.2	958.6	904.2	879.0
50°	997.0	957.2	885.6	829.9	804.8
52.5°	930.7	887.0	816.7	757.0	734.5
55°	857.8	820.7	742.4	682.8	660.2
57.5°	792.8	751.7	677.5	616.5	591.3
60°	725.2	680.1	604.6	544.9	521.0
62.5°	653.6	608.5	535.6	476.0	454.7
65°	583.4	538.3	468.0	409.7	389.8
67.5°	513.1	470.7	400.4	346.0	323.5
70°	445.5	401.7	331.4	282.4	269.1
72.5°	373.9	339.4	269.1	225.4	214.8
75°	310.2	271.8	209.5	175.0	165.7
77.5°	245.3	208.1	155.1	131.3	123.3
80°	183.0	151.1	108.7	94.1	91.5
82.5°	126.0	95.5	71.6	68.9	67.6
85°	78.2	50.4	45.1	42.4	42.4
87.5°	33.1	21.2	21.2	19.9	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)