

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: P243226

Luminaire Tested: **S122RDR-H1005D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-63)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-H1005D835-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3343.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

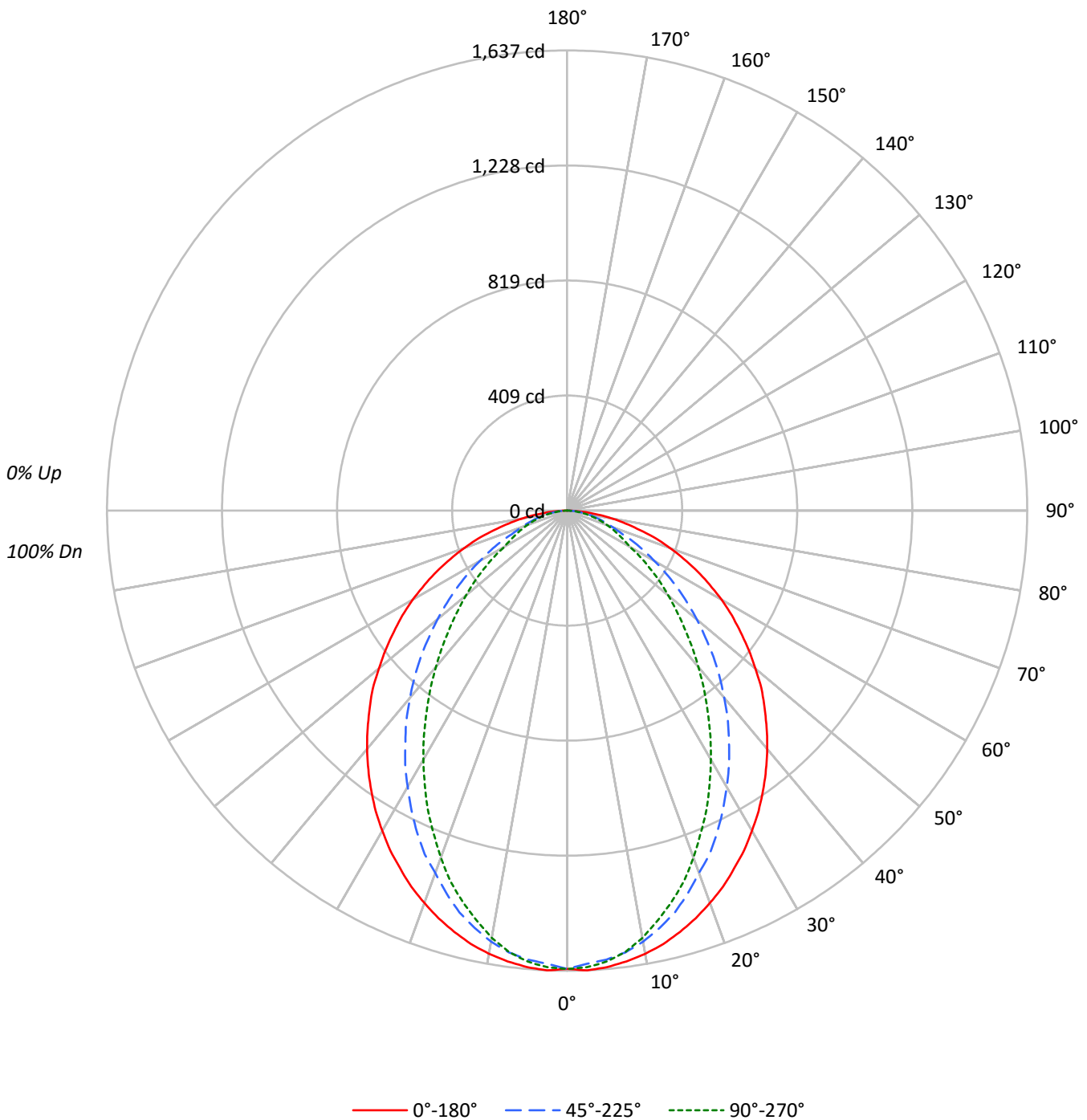
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31053	31053	31053
5°	31172	30660	30795
10°	30960	30117	29846
15°	30595	29181	28377
20°	30109	27801	26631
25°	29533	26546	24655
30°	28927	24966	22491
35°	28259	23320	20246
40°	27526	21615	18047
45°	26752	19818	15877
50°	25884	17839	13922
55°	24990	15880	12005
60°	24168	13665	9806
65°	23076	11538	9064
70°	21698	9557	8460
75°	19775	8699	7764
80°	17748	7711	6943
85°	14752	6447	6141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	4.6
10°-20°	418.5	12.5
20°-30°	587.0	17.6
30°-40°	639.4	19.1
40°-50°	587.8	17.6
50°-60°	461.2	13.8
60°-70°	300.9	9.0
70°-80°	155.6	4.7
80°-90°	40.3	1.2
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°	1158.2	34.6
0°-40°	1797.7	53.8
0°-60°	2846.7	85.1
0°-90°	3343.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3343.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1630	1622	1604	1615	1611	155
15°	1552	1533	1480	1450	1439	437
25°	1405	1356	1263	1201	1173	648
35°	1215	1135	1003	910	871	760
45°	993	892	736	629	589	767
55°	752	640	478	388	362	674
65°	512	388	256	208	201	506
75°	269	167	118	108	106	287
85°	68	32	30	28	28	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.3	1630.3	1630.3	1630.3	1630.3
2.5°	1637.3	1630.3	1613.4	1628.9	1626.0
5°	1630.3	1621.8	1603.5	1614.8	1610.6
7.5°	1617.6	1609.2	1585.3	1590.9	1583.9
10°	1600.7	1589.5	1557.1	1551.5	1543.1
12.5°	1579.6	1564.2	1520.6	1503.7	1492.4
15°	1551.5	1533.2	1479.8	1450.2	1439.0
17.5°	1520.6	1493.8	1427.7	1394.0	1382.7
20°	1485.4	1454.4	1371.5	1336.3	1313.8
22.5°	1448.8	1409.4	1323.6	1268.8	1242.0
25°	1405.2	1356.0	1263.1	1201.3	1173.1
27.5°	1363.0	1305.3	1199.8	1128.1	1097.2
30°	1315.2	1251.9	1135.1	1052.1	1022.6
32.5°	1267.4	1194.2	1071.8	981.8	948.1
35°	1215.3	1135.1	1002.9	910.1	870.7
37.5°	1161.9	1078.9	939.6	836.9	799.0
40°	1107.0	1014.2	869.3	762.4	725.8
42.5°	1050.7	956.5	803.2	693.5	658.3
45°	993.1	891.8	735.7	628.8	589.4
47.5°	938.2	828.5	666.7	565.5	527.5
50°	873.5	765.2	602.0	499.3	469.8
52.5°	814.4	701.9	538.7	440.3	415.0
55°	752.5	640.0	478.2	388.2	361.5
57.5°	694.9	575.3	417.8	336.2	310.9
60°	634.4	513.4	358.7	284.1	257.4
62.5°	571.1	450.1	306.6	236.3	227.9
65°	512.0	388.2	256.0	208.2	201.1
67.5°	448.7	330.6	204.0	182.9	175.8
70°	389.6	274.3	171.6	156.1	151.9
72.5°	332.0	220.8	144.9	132.2	128.0
75°	268.7	167.4	118.2	108.3	105.5
77.5°	213.8	118.2	94.2	87.2	84.4
80°	161.8	85.8	70.3	66.1	63.3
82.5°	111.1	57.7	49.2	46.4	45.0
85°	67.5	32.4	29.5	28.1	28.1
87.5°	26.7	12.7	12.7	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)