

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: P243241

Luminaire Tested: **S122RDR-H1005D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243241
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-H1005D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.7 lumens
Efficiency: N/A
Efficacy: 76.4 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

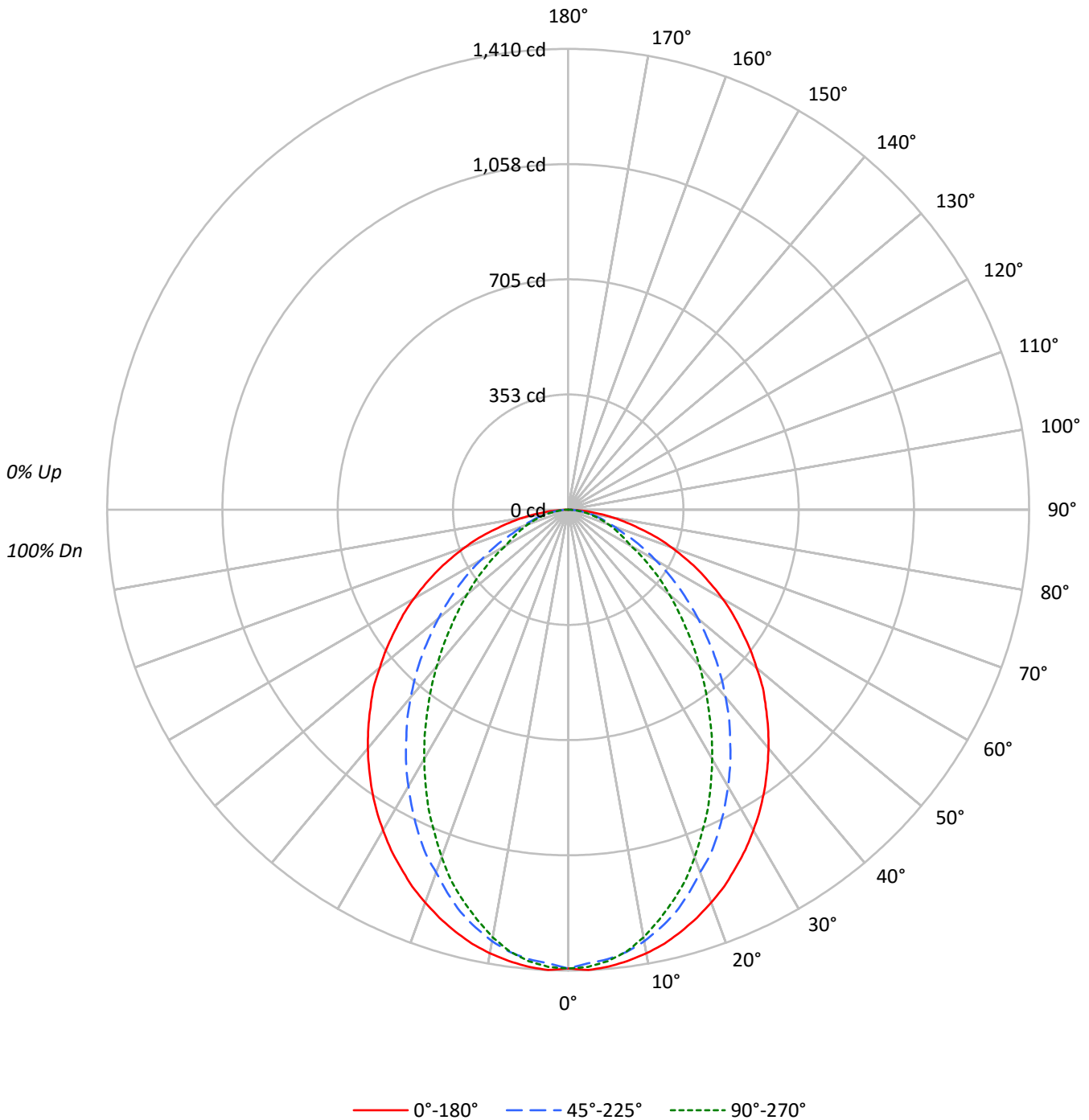
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26737	26737	26737
5°	26839	26400	26514
10°	26657	25931	25697
15°	26341	25125	24433
20°	25923	23935	22930
25°	25428	22858	21229
30°	24906	21497	19366
35°	24332	20079	17433
40°	23699	18611	15538
45°	23032	17062	13668
50°	22287	15359	11987
55°	21516	13675	10338
60°	20808	11764	8442
65°	19867	9934	7806
70°	18685	8231	7284
75°	17022	7485	6682
80°	15280	6647	5978
85°	12698	5551	5289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.6
10°-20°	360.3	12.5
20°-30°	505.5	17.6
30°-40°	550.6	19.1
40°-50°	506.0	17.6
50°-60°	397.1	13.8
60°-70°	259.1	9.0
70°-80°	134.0	4.7
80°-90°	34.7	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°	997.2	34.6
0°-40°	1547.8	53.8
0°-60°	2451.0	85.1
0°-90°	2878.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1404	1396	1381	1390	1387	133
15°	1336	1320	1274	1249	1239	377
25°	1210	1168	1088	1034	1010	558
35°	1046	977	864	784	750	654
45°	855	768	633	541	507	660
55°	648	551	412	334	311	581
65°	441	334	220	179	173	435
75°	231	144	102	93	91	247
85°	58	28	25	24	24	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.7	1403.7	1403.7	1403.7	1403.7
2.5°	1409.7	1403.7	1389.1	1402.5	1400.0
5°	1403.7	1396.4	1380.7	1390.3	1386.7
7.5°	1392.8	1385.5	1364.9	1369.8	1363.7
10°	1378.2	1368.5	1340.7	1335.8	1328.6
12.5°	1360.1	1346.7	1309.2	1294.7	1285.0
15°	1335.8	1320.1	1274.1	1248.6	1239.0
17.5°	1309.2	1286.2	1229.3	1200.2	1190.5
20°	1278.9	1252.3	1180.8	1150.5	1131.2
22.5°	1247.4	1213.5	1139.6	1092.4	1069.4
25°	1209.9	1167.5	1087.6	1034.3	1010.1
27.5°	1173.6	1123.9	1033.1	971.3	944.7
30°	1132.4	1077.9	977.4	905.9	880.5
32.5°	1091.2	1028.2	922.9	845.3	816.3
35°	1046.4	977.4	863.5	783.6	749.7
37.5°	1000.4	928.9	809.0	720.6	687.9
40°	953.1	873.2	748.5	656.4	624.9
42.5°	904.7	823.5	691.5	597.1	566.8
45°	855.0	767.8	633.4	541.4	507.4
47.5°	807.8	713.3	574.1	486.9	454.2
50°	752.1	658.8	518.3	429.9	404.5
52.5°	701.2	604.3	463.9	379.1	357.3
55°	647.9	551.0	411.8	334.3	311.3
57.5°	598.3	495.3	359.7	289.5	267.7
60°	546.2	442.1	308.8	244.6	221.6
62.5°	491.7	387.6	264.0	203.5	196.2
65°	440.8	334.3	220.4	179.2	173.2
67.5°	386.3	284.6	175.6	157.4	151.4
70°	335.5	236.2	147.8	134.4	130.8
72.5°	285.8	190.1	124.7	113.8	110.2
75°	231.3	144.1	101.7	93.3	90.8
77.5°	184.1	101.7	81.1	75.1	72.7
80°	139.3	73.9	60.6	56.9	54.5
82.5°	95.7	49.7	42.4	40.0	38.8
85°	58.1	27.9	25.4	24.2	24.2
87.5°	23.0	10.9	10.9	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)