

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1060317

Luminaire Tested: S124RDR-S1195D835-X4F0-XX-UDD-WVL-W

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1060317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-73)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D835-X4F0-XX-UDD-WVL-W
Description: DEFINE 4 WHITE REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

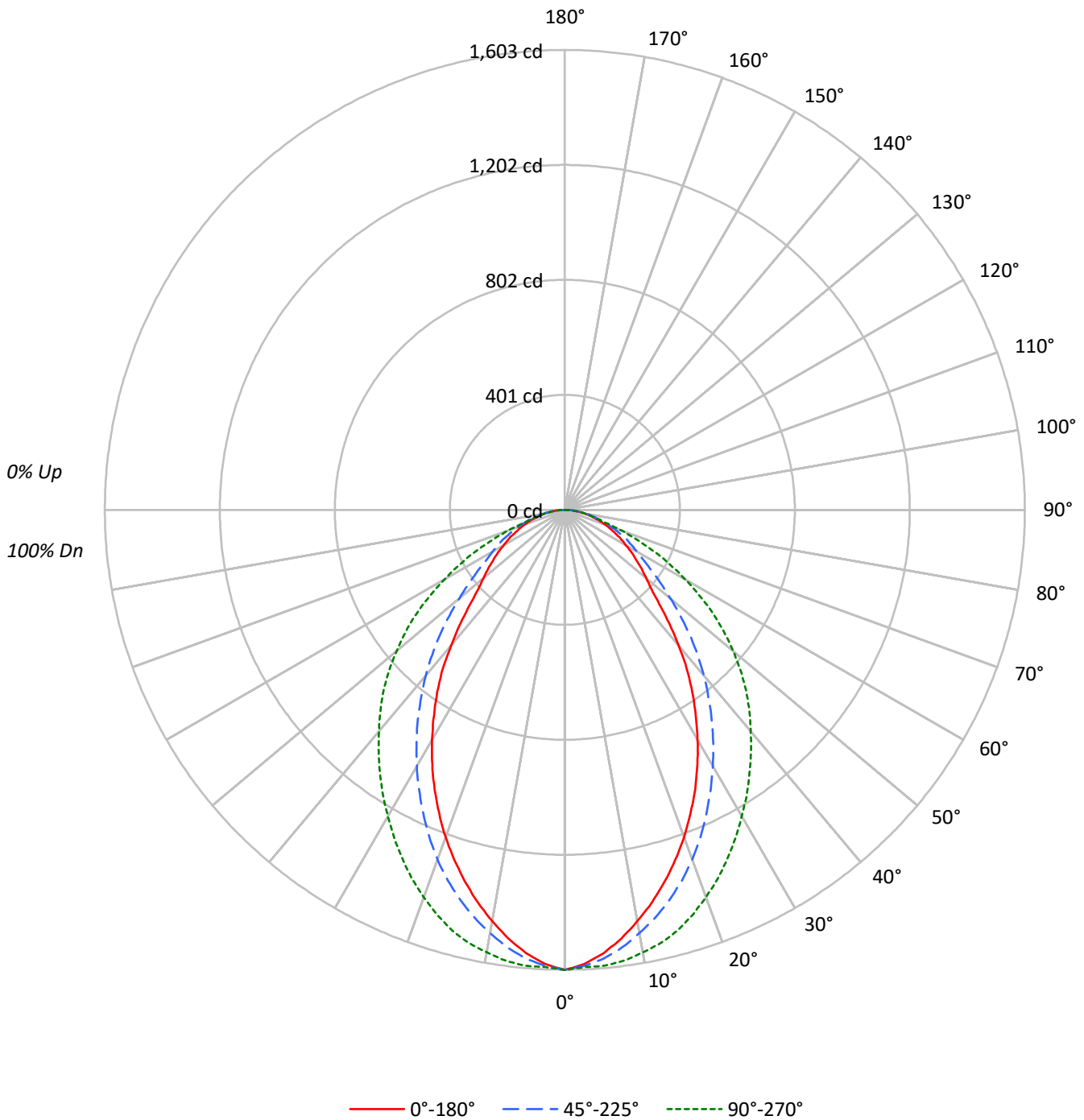
Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.15 / 1.11
Luminous Opening: Rectangular (W 0.31' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
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: 24 FT

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CATALOG NUMBER: S124RDR-S1195D835-X4F0-XX-UDD-WVL-W

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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	66	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	60	54	65	59	53	63	58	53	62	56	52	50
6	75	62	54	48	73	61	54	48	60	53	48	58	52	47	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	40
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13806	13806	13806
5°	13405	13565	13785
10°	12729	13101	13697
15°	11966	12548	13535
20°	11129	11884	13171
25°	10205	11095	12739
30°	9199	10256	12260
35°	8144	9382	11798
40°	6922	8469	11324
45°	5668	7482	10886
50°	4961	6425	10246
55°	4558	5538	9479
60°	4228	4984	8358
65°	3961	4684	6997
70°	3716	4288	5252
75°	3493	3919	3823
80°	3238	3590	3238
85°	2944	3507	2806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10886 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	5.0
10°-20°	398.7	13.6
20°-30°	544.9	18.5
30°-40°	572.7	19.5
40°-50°	497.0	16.9
50°-60°	374.9	12.7
60°-70°	243.0	8.3
70°-80°	124.7	4.2
80°-90°	37.8	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°	1091.8	37.1
0°-40°	1664.5	56.6
0°-60°	2536.4	86.2
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1551	1572	1569	1582	1595	145
15°	1342	1375	1408	1471	1518	376
25°	1074	1112	1168	1257	1341	492
35°	775	817	892	1012	1122	482
45°	465	509	614	768	894	366
55°	304	312	369	524	631	273
65°	194	199	230	278	343	194
75°	105	118	118	119	115	112
85°	30	37	36	34	28	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.3	1603.3	1603.3	1603.3	1603.3
2.5°	1584.9	1604.7	1590.5	1593.4	1594.8
5°	1550.8	1572.1	1569.3	1582.0	1594.8
7.5°	1506.8	1532.4	1538.1	1563.6	1584.9
10°	1455.8	1484.1	1498.3	1539.5	1566.4
12.5°	1401.8	1430.2	1455.8	1508.3	1546.6
15°	1342.2	1374.9	1407.5	1471.4	1518.2
17.5°	1279.8	1313.9	1355.0	1424.5	1479.9
20°	1214.5	1248.6	1296.8	1372.0	1437.3
22.5°	1145.0	1183.3	1234.4	1315.3	1391.9
25°	1074.1	1112.4	1167.7	1257.1	1340.8
27.5°	1000.3	1040.0	1099.6	1198.9	1288.3
30°	925.1	967.7	1031.5	1136.5	1233.0
32.5°	848.5	893.9	962.0	1074.1	1179.1
35°	774.7	817.3	892.5	1011.7	1122.3
37.5°	698.1	740.6	821.5	950.6	1065.6
40°	615.8	662.6	753.4	886.8	1007.4
42.5°	539.2	586.0	683.9	825.8	952.1
45°	465.4	509.4	614.4	767.6	893.9
47.5°	408.6	439.8	544.8	710.9	831.5
50°	370.3	384.5	479.6	648.4	764.8
52.5°	336.3	347.6	420.0	586.0	699.5
55°	303.6	312.2	368.9	523.6	631.4
57.5°	275.3	279.5	323.5	461.1	557.6
60°	245.5	251.1	289.4	397.3	485.3
62.5°	221.3	224.2	259.7	336.3	412.9
65°	194.4	198.6	229.9	278.1	343.4
67.5°	170.3	177.4	198.6	227.0	271.0
70°	147.6	157.5	170.3	184.5	208.6
72.5°	126.3	137.6	144.7	150.4	146.1
75°	105.0	117.8	117.8	119.2	114.9
77.5°	85.1	96.5	95.1	93.6	88.0
80°	65.3	75.2	72.4	70.9	65.3
82.5°	48.2	55.3	52.5	51.1	44.0
85°	29.8	36.9	35.5	34.1	28.4
87.5°	14.2	21.3	19.9	18.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)