

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: P1036127

Luminaire Tested: S125RDIW-B850D470UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036127
REPORT IS A COMBINATION OF REPORTS P1006935 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D470UB27-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

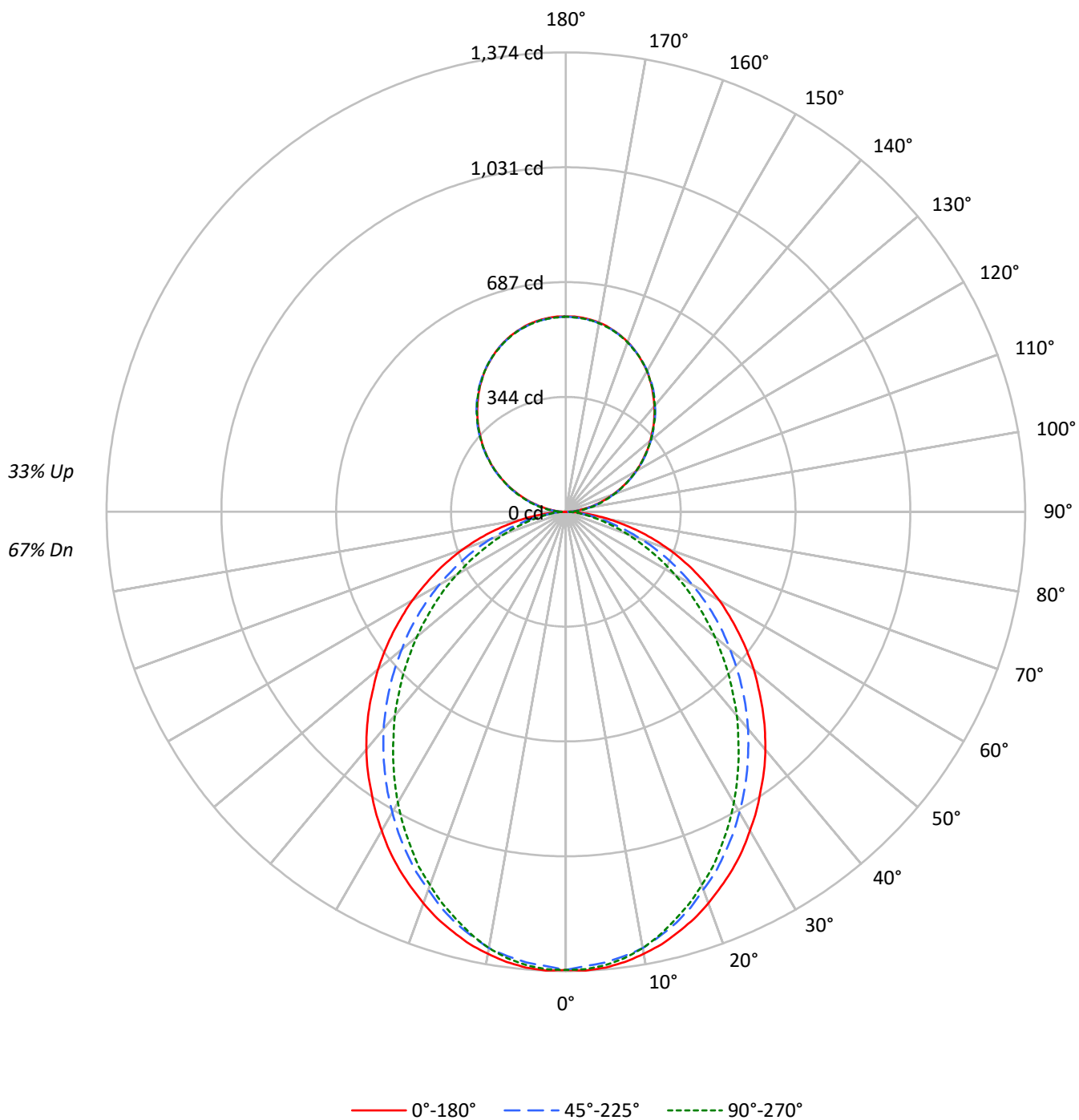
Lumens per Lamp: N/A
Luminaire Lumens: 4868.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
Input Voltage (V):
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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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93	81	81	81	71	71	71
1	102	97	94	90	96	92	89	86	82	79	77	72	70	69	64	62	61
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52
3	85	75	68	62	80	71	65	59	64	59	54	57	53	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	46	41	37	41	37	34
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	27
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	38	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8781	8781	8781
5°	8782	8562	8576
10°	8697	8347	8273
15°	8573	8044	7874
20°	8421	7681	7456
25°	8246	7326	7008
30°	8033	6936	6537
35°	7814	6540	6038
40°	7606	6133	5549
45°	7357	5694	5038
50°	7104	5227	4517
55°	6810	4768	3978
60°	6510	4244	3419
65°	6151	3656	2815
70°	5734	2976	2215
75°	5156	2238	1615
80°	4350	1449	1089
85°	3253	778	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7357 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	2.6
10°-20°	360.5	7.4
20°-30°	522.7	10.7
30°-40°	595.5	12.2
40°-50°	580.4	11.9
50°-60°	488.5	10.0
60°-70°	342.3	7.0
70°-80°	175.5	3.6
80°-90°	44.7	0.9
90°-100°	38.8	0.8
100°-110°	115.3	2.4
110°-120°	195.6	4.0
120°-130°	257.4	5.3
130°-140°	288.5	5.9
140°-150°	282.8	5.8
150°-160°	237.5	4.9
160°-170°	157.9	3.2
170°-180°	55.3	1.1
0°-30°	1012.1	20.8
0°-40°	1607.6	33.0
0°-60°	2676.5	55.0
0°-90°	3238.9	66.5
90°-120°	349.7	7.2
90°-150°	1178.4	24.2
90°-180°	1629.0	33.5
0°-180°	4868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1368	1364	1353	1363	1361	130
15°	1301	1295	1273	1272	1263	367
25°	1180	1164	1126	1113	1101	543
35°	1016	992	945	915	901	637
45°	832	802	745	704	688	642
55°	631	598	540	494	477	565
65°	428	392	337	296	280	423
75°	228	197	153	130	123	241
85°	57	38	33	32	31	62
90°	0	4	7	10	11	5
95°	30	30	35	38	39	31
105°	104	106	109	111	113	110
115°	196	198	198	198	198	194
125°	286	288	289	288	288	256
135°	372	374	375	375	373	286
145°	450	452	453	453	452	281
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1373.6	1370.5	1360.1	1370.5	1369.5
5°	1368.4	1364.3	1352.9	1363.3	1361.2
7.5°	1358.1	1353.9	1340.5	1348.8	1346.7
10°	1342.6	1339.4	1325.0	1328.1	1325.0
12.5°	1325.0	1320.8	1300.1	1302.2	1297.0
15°	1301.1	1294.9	1273.2	1272.2	1262.8
17.5°	1276.3	1267.0	1241.1	1235.9	1228.7
20°	1246.3	1235.9	1202.8	1197.6	1188.3
22.5°	1213.2	1202.8	1167.6	1156.2	1149.0
25°	1180.0	1164.5	1126.2	1112.8	1101.4
27.5°	1142.8	1124.1	1083.8	1066.2	1054.8
30°	1101.4	1081.7	1038.2	1014.4	1005.1
32.5°	1061.0	1037.2	992.7	965.8	953.3
35°	1016.5	991.6	945.1	915.0	900.6
37.5°	974.0	944.0	896.4	861.2	846.7
40°	928.5	897.4	847.8	808.4	796.0
42.5°	880.9	848.8	797.0	759.8	740.1
45°	832.2	802.2	745.3	703.9	688.4
47.5°	781.5	750.5	693.5	651.1	633.5
50°	733.9	699.7	640.7	597.3	581.7
52.5°	682.1	646.9	592.1	544.5	528.9
55°	631.4	598.3	540.3	493.8	477.2
57.5°	579.7	544.5	488.6	443.0	428.5
60°	530.0	493.8	437.9	392.3	376.8
62.5°	477.2	443.0	386.1	344.7	329.2
65°	427.5	392.3	337.4	296.0	280.5
67.5°	377.8	342.6	289.8	250.5	238.1
70°	327.1	291.9	240.1	208.1	195.6
72.5°	277.4	243.3	195.6	166.7	159.4
75°	227.7	196.7	153.2	130.4	123.2
77.5°	177.0	152.2	115.9	98.3	92.1
80°	134.6	109.7	80.7	71.4	69.4
82.5°	93.2	71.4	53.8	50.7	49.7
85°	56.9	38.3	33.1	32.1	31.1
87.5°	23.8	16.6	15.5	15.5	14.5
90°	0.5	4.1	7.3	9.5	10.9
92.5°	13.6	15.9	20.0	23.2	24.1
95°	29.5	30.4	35.0	38.2	39.1
97.5°	45.4	45.9	52.2	55.0	55.4
100°	63.6	63.6	69.5	73.6	74.5
102.5°	83.1	85.4	87.7	92.2	93.6
105°	103.6	105.8	108.6	111.3	112.7
107.5°	125.8	128.1	130.4	131.7	131.7
110°	149.0	151.3	152.6	154.0	153.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.6	173.5	175.3	175.8	174.9
115°	195.8	197.6	198.5	198.1	197.6
117.5°	219.4	219.9	220.8	221.2	219.4
120°	241.2	243.5	243.9	243.9	242.1
122.5°	264.8	265.3	266.6	266.2	264.8
125°	285.7	288.4	288.9	288.0	287.5
127.5°	308.9	310.3	310.7	310.3	309.3
130°	329.3	331.6	332.5	332.1	331.1
132.5°	349.8	353.9	353.4	353.0	351.6
135°	371.6	374.3	374.8	374.8	372.9
137.5°	392.0	394.7	395.7	396.1	393.8
140°	411.6	413.8	415.2	416.1	413.8
142.5°	431.1	432.9	434.7	435.2	432.9
145°	450.2	452.0	453.3	453.3	452.0
147.5°	467.9	469.2	470.1	471.5	467.9
150°	485.6	485.1	487.0	487.0	486.0
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)