

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: P1027280

Luminaire Tested: S125RDIP-B850D375UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027280
REPORT IS A COMBINATION OF REPORTS P1005811 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D375UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

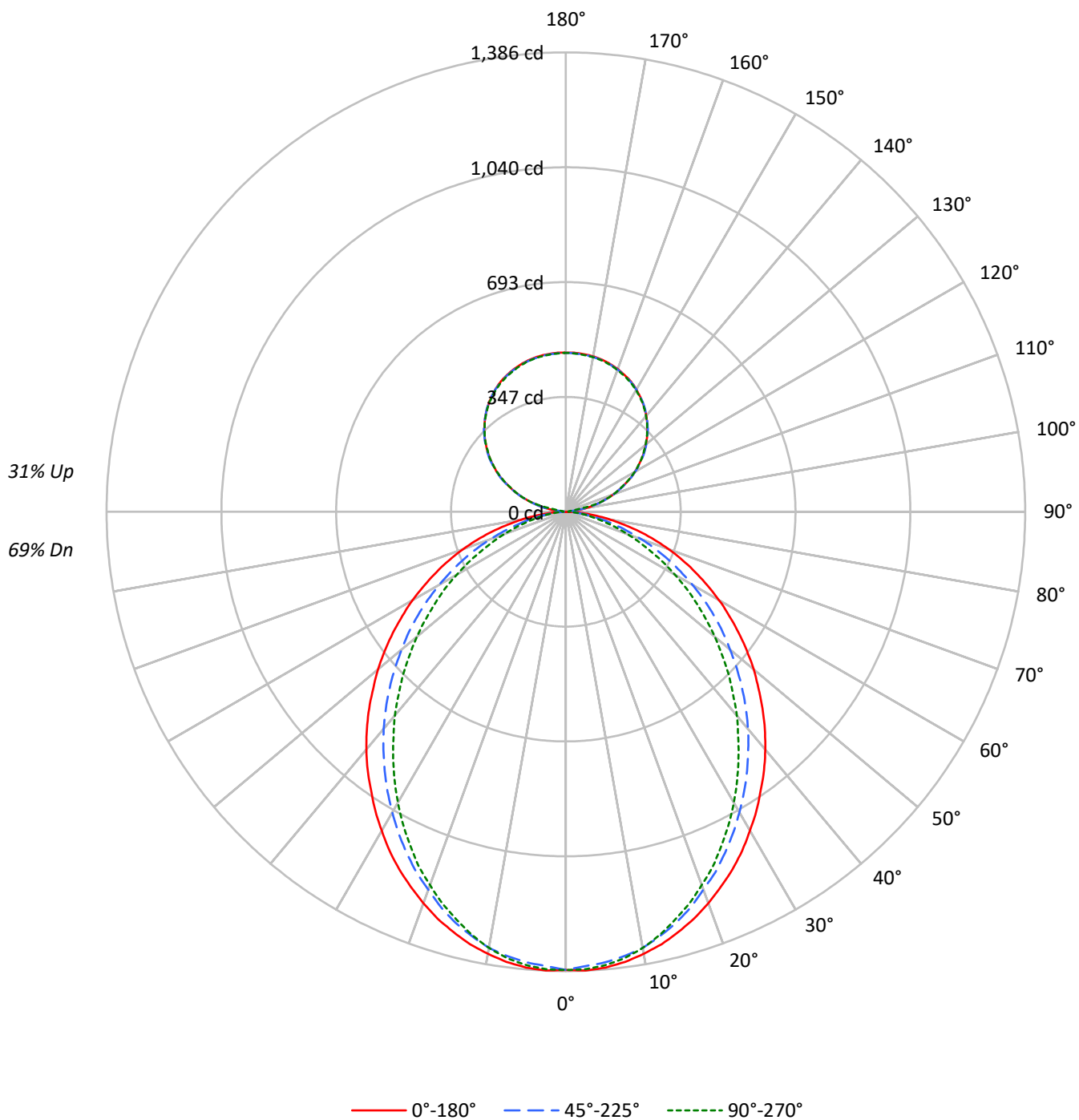
Lumens per Lamp: N/A
Luminaire Lumens: 4740.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73			69
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	66	64	63			59
2	93	86	80	75	88	81	76	71	73	69	65	65	62	59	58	56	53			50
3	85	76	68	63	80	72	65	60	65	59	55	58	54	50	52	48	46			42
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	46	43	40			37
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35			32
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31			28
7	62	49	41	35	58	47	40	34	43	36	32	39	33	30	35	31	27			25
8	57	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25			22
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	25	22			20
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	28	23	20			19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8858	8636	8650
10°	8772	8418	8344
15°	8647	8114	7943
20°	8494	7747	7521
25°	8317	7389	7069
30°	8102	6996	6594
35°	7882	6596	6089
40°	7672	6186	5597
45°	7420	5743	5081
50°	7165	5273	4556
55°	6869	4810	4012
60°	6566	4280	3448
65°	6205	3689	2839
70°	5783	3002	2234
75°	5201	2257	1628
80°	4385	1461	1099
85°	3282	785	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.7
10°-20°	363.6	7.7
20°-30°	527.2	11.1
30°-40°	600.6	12.7
40°-50°	585.4	12.4
50°-60°	492.7	10.4
60°-70°	345.2	7.3
70°-80°	177.0	3.7
80°-90°	44.9	0.9
90°-100°	16.3	0.3
100°-110°	108.2	2.3
110°-120°	194.9	4.1
120°-130°	250.2	5.3
130°-140°	269.1	5.7
140°-150°	252.6	5.3
150°-160°	204.3	4.3
160°-170°	132.1	2.8
170°-180°	45.6	1.0
0°-30°	1020.9	21.5
0°-40°	1621.5	34.2
0°-60°	2699.6	57.0
0°-90°	3266.7	68.9
90°-120°	319.5	6.7
90°-150°	1091.3	23.0
90°-180°	1473.0	31.1
0°-180°	4740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1376	1365	1375	1373	131
15°	1312	1306	1284	1283	1274	370
25°	1190	1175	1136	1122	1111	548
35°	1025	1000	953	923	908	642
45°	839	809	752	710	694	647
55°	637	604	545	498	481	570
65°	431	396	340	299	283	427
75°	230	198	154	132	124	243
85°	57	39	33	32	31	63
90°	0	3	6	8	8	4
95°	20	19	6	8	8	25
105°	104	106	106	106	106	111
115°	196	198	198	197	195	195
125°	279	282	282	280	279	249
135°	348	350	350	349	347	268
145°	404	404	404	405	402	252
155°	444	442	443	444	441	205
165°	469	467	467	469	466	132
175°	480	478	478	481	478	46
180°	480	480	480	480	480	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1385.5	1382.3	1371.9	1382.3	1381.3
5°	1380.3	1376.1	1364.6	1375.0	1373.0
7.5°	1369.8	1365.6	1352.1	1360.4	1358.3
10°	1354.2	1351.0	1336.4	1339.5	1336.4
12.5°	1336.4	1332.2	1311.4	1313.4	1308.2
15°	1312.4	1306.1	1284.2	1283.2	1273.8
17.5°	1287.3	1277.9	1251.8	1246.6	1239.3
20°	1257.1	1246.6	1213.2	1208.0	1198.6
22.5°	1223.7	1213.2	1177.7	1166.2	1158.9
25°	1190.2	1174.6	1135.9	1122.4	1110.9
27.5°	1152.7	1133.9	1093.1	1075.4	1063.9
30°	1110.9	1091.1	1047.2	1023.2	1013.8
32.5°	1070.2	1046.2	1001.3	974.1	961.6
35°	1025.3	1000.2	953.2	923.0	908.3
37.5°	982.5	952.2	904.2	868.7	854.0
40°	936.5	905.2	855.1	815.4	802.9
42.5°	888.5	856.1	803.9	766.3	746.5
45°	839.4	809.2	751.7	710.0	694.3
47.5°	788.3	757.0	699.5	656.7	639.0
50°	740.2	705.8	646.3	602.4	586.8
52.5°	688.0	652.5	597.2	549.2	533.5
55°	636.9	603.5	545.0	498.0	481.3
57.5°	584.7	549.2	492.8	446.9	432.2
60°	534.6	498.0	441.6	395.7	380.0
62.5°	481.3	446.9	389.4	347.7	332.0
65°	431.2	395.7	340.4	298.6	282.9
67.5°	381.1	345.6	292.3	252.7	240.1
70°	329.9	294.4	242.2	209.9	197.3
72.5°	279.8	245.4	197.3	168.1	160.8
75°	229.7	198.4	154.5	131.6	124.2
77.5°	178.5	153.5	116.9	99.2	92.9
80°	135.7	110.7	81.4	72.0	70.0
82.5°	94.0	72.0	54.3	51.2	50.1
85°	57.4	38.6	33.4	32.4	31.3
87.5°	24.0	16.7	15.7	15.7	14.6
90°	0.4	3.2	5.7	7.5	8.5
92.5°	6.8	3.6	5.7	7.5	7.8
95°	20.3	19.2	5.7	7.5	7.5
97.5°	38.0	40.2	6.4	7.1	7.5
100°	59.4	60.4	61.9	8.9	7.5
102.5°	81.1	82.5	83.2	83.9	54.0
105°	104.5	105.9	105.9	105.9	105.6
107.5°	128.7	128.7	129.4	129.8	128.3
110°	152.2	152.2	152.9	151.8	152.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.2	175.3	175.6	174.2	173.5
115°	196.3	198.0	198.4	197.0	194.8
117.5°	219.4	219.4	220.8	218.7	217.9
120°	240.7	240.3	241.4	240.7	238.9
122.5°	259.5	261.3	261.7	261.0	258.8
125°	279.1	281.6	281.6	280.2	279.1
127.5°	297.9	299.7	299.4	298.7	295.8
130°	315.0	316.8	317.1	316.1	314.3
132.5°	332.1	334.2	333.1	333.1	331.4
135°	348.1	350.2	349.5	348.8	346.6
137.5°	363.0	365.1	364.4	364.4	362.6
140°	377.6	378.3	377.9	378.6	376.5
142.5°	390.7	391.1	391.8	391.8	389.7
145°	403.5	404.2	404.2	404.6	402.5
147.5°	414.9	414.9	415.3	415.6	413.1
150°	425.6	424.9	425.6	426.3	423.4
152.5°	435.9	434.1	434.8	435.5	433.0
155°	444.4	442.3	443.0	444.1	441.2
157.5°	451.2	450.1	450.1	451.2	448.3
160°	458.3	456.2	456.5	457.9	455.1
162.5°	464.0	461.8	462.2	464.3	461.1
165°	469.0	466.8	467.2	469.3	466.5
167.5°	472.9	470.7	471.1	473.6	470.4
170°	476.1	473.6	473.9	476.8	473.6
172.5°	478.2	475.7	476.4	478.9	475.7
175°	479.6	477.5	477.8	480.7	477.5
177.5°	480.7	478.6	478.9	481.4	478.6
180°	479.6	479.6	479.6	479.6	479.6

(END OF REPORT)