

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: P1028551

Luminaire Tested: S125RDIP-B1090D850UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028551
REPORT IS A COMBINATION OF REPORTS P1005106 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D850UB35-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

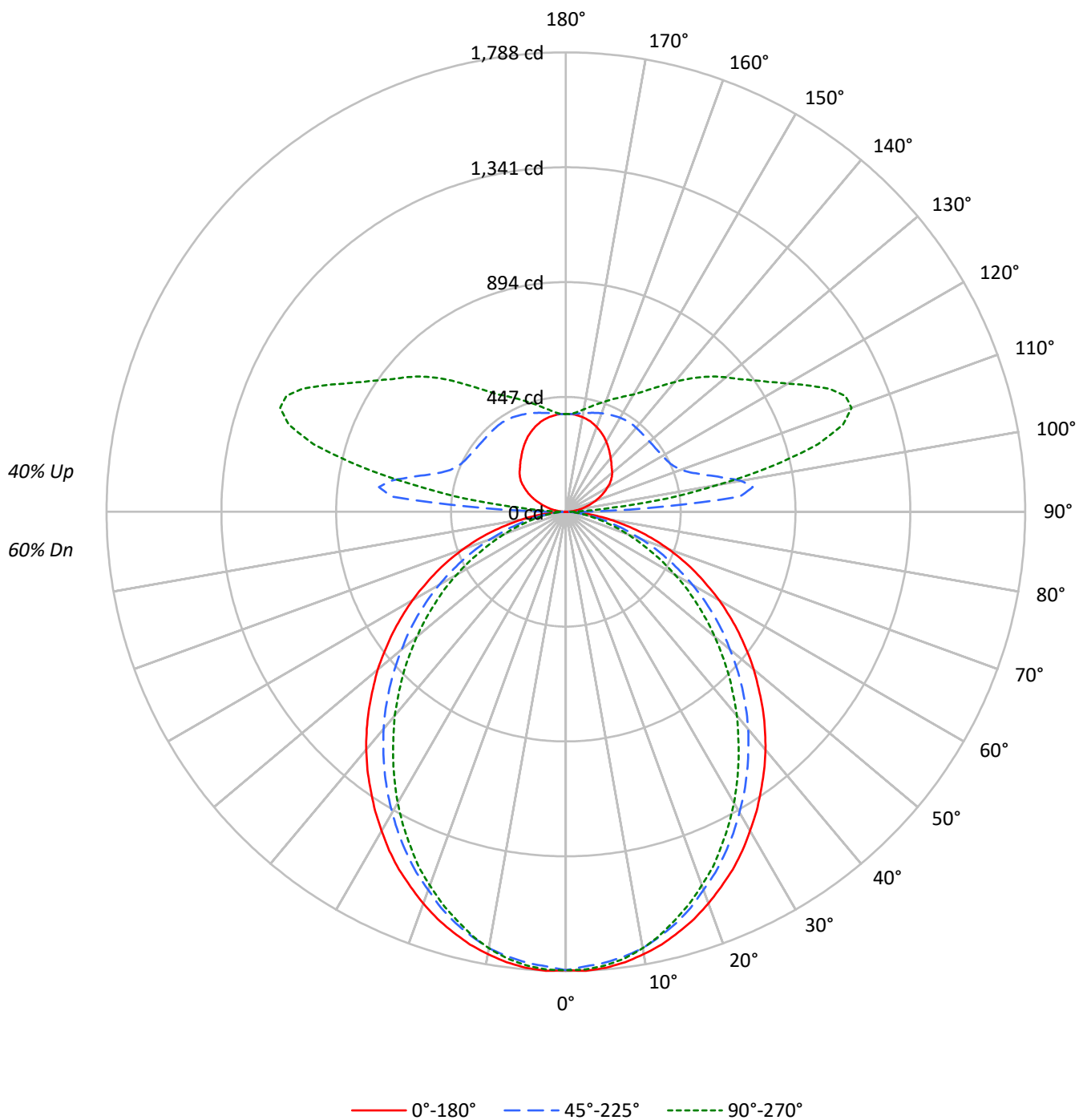
Lumens per Lamp: N/A
Luminaire Lumens: 7080.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	100	96	92	89	93	90	86	83	78	76	73	68	66	64	58	57	55
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35
5	70	59	51	45	66	55	48	43	49	43	38	43	38	34	37	33	31
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20
10	49	37	29	25	46	35	28	24	31	25	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.4
10°-20°	469.3	6.6
20°-30°	680.5	9.6
30°-40°	775.3	10.9
40°-50°	755.7	10.7
50°-60°	636.0	9.0
60°-70°	445.7	6.3
70°-80°	228.5	3.2
80°-90°	58.5	0.8
90°-100°	286.5	4.0
100°-110°	595.1	8.4
110°-120°	555.8	7.8
120°-130°	449.8	6.4
130°-140°	361.4	5.1
140°-150°	272.8	3.9
150°-160°	192.1	2.7
160°-170°	113.2	1.6
170°-180°	36.8	0.5
0°-30°	1317.8	18.6
0°-40°	2093.2	29.6
0°-60°	3484.9	49.2
0°-90°	4217.5	59.6
90°-120°	1437.4	20.3
90°-150°	2521.3	35.6
90°-180°	2863.0	40.4
0°-180°	7080.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	7	12	16	18	6
95°	25	75	680	308	180	26
105°	87	121	556	1095	1016	91
115°	155	187	446	962	1132	153
125°	215	252	428	766	892	191
135°	252	302	425	642	741	195
145°	293	336	426	531	584	184
155°	334	360	416	470	490	154
165°	365	375	399	423	430	103
175°	380	380	383	387	386	36
180°	380	380	380	380	380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	0.8	6.9	12.3	16.1	17.6
92.5°	11.5	62.9	306.0	81.7	56.8
95°	25.3	74.8	679.6	308.4	180.2
97.5°	39.1	80.9	734.0	556.8	395.0
100°	53.7	92.8	692.6	787.0	598.3
102.5°	69.8	106.2	619.8	981.8	825.3
105°	86.7	121.2	556.1	1094.9	1016.3
107.5°	102.8	136.9	508.5	1126.8	1131.4
110°	120.4	153.4	477.1	1096.5	1183.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.1	169.9	458.7	1033.2	1177.4
115°	154.9	186.8	446.4	962.2	1132.1
117.5°	170.3	204.0	439.5	897.8	1063.9
120°	185.6	220.5	434.9	843.8	997.9
122.5°	201.7	236.6	431.1	800.3	939.6
125°	214.8	251.6	428.0	765.5	892.0
127.5°	225.5	266.2	426.5	735.6	848.3
130°	235.5	280.0	424.9	705.2	813.8
132.5°	243.1	292.2	424.9	672.7	779.3
135°	251.6	302.5	424.9	641.6	740.9
137.5°	262.3	312.2	425.7	609.0	701.1
140°	271.5	320.2	426.5	579.1	658.9
142.5°	282.3	327.9	427.2	553.4	619.8
145°	293.0	335.5	426.5	531.2	584.5
147.5°	304.5	342.4	424.9	512.0	553.0
150°	314.5	348.6	422.6	496.3	527.7
152.5°	325.2	354.8	419.6	482.8	507.8
155°	334.4	359.8	415.7	469.8	490.1
157.5°	342.9	364.7	411.9	457.6	474.0
160°	351.3	368.6	408.1	445.2	457.9
162.5°	358.2	372.4	403.5	434.1	443.3
165°	365.1	375.1	398.8	423.0	429.5
167.5°	369.7	376.6	394.2	412.6	416.5
170°	374.3	378.5	390.4	402.7	405.0
172.5°	377.4	379.3	385.8	394.6	394.2
175°	379.7	379.7	382.7	387.3	385.8
177.5°	381.2	379.7	380.4	382.7	380.4
180°	380.4	380.4	380.4	380.4	380.4

(END OF REPORT)