

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: P1027729

Luminaire Tested: S125DIP-B1270D850UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027729
REPORT IS A COMBINATION OF REPORTS P1001797 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D850UB35-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

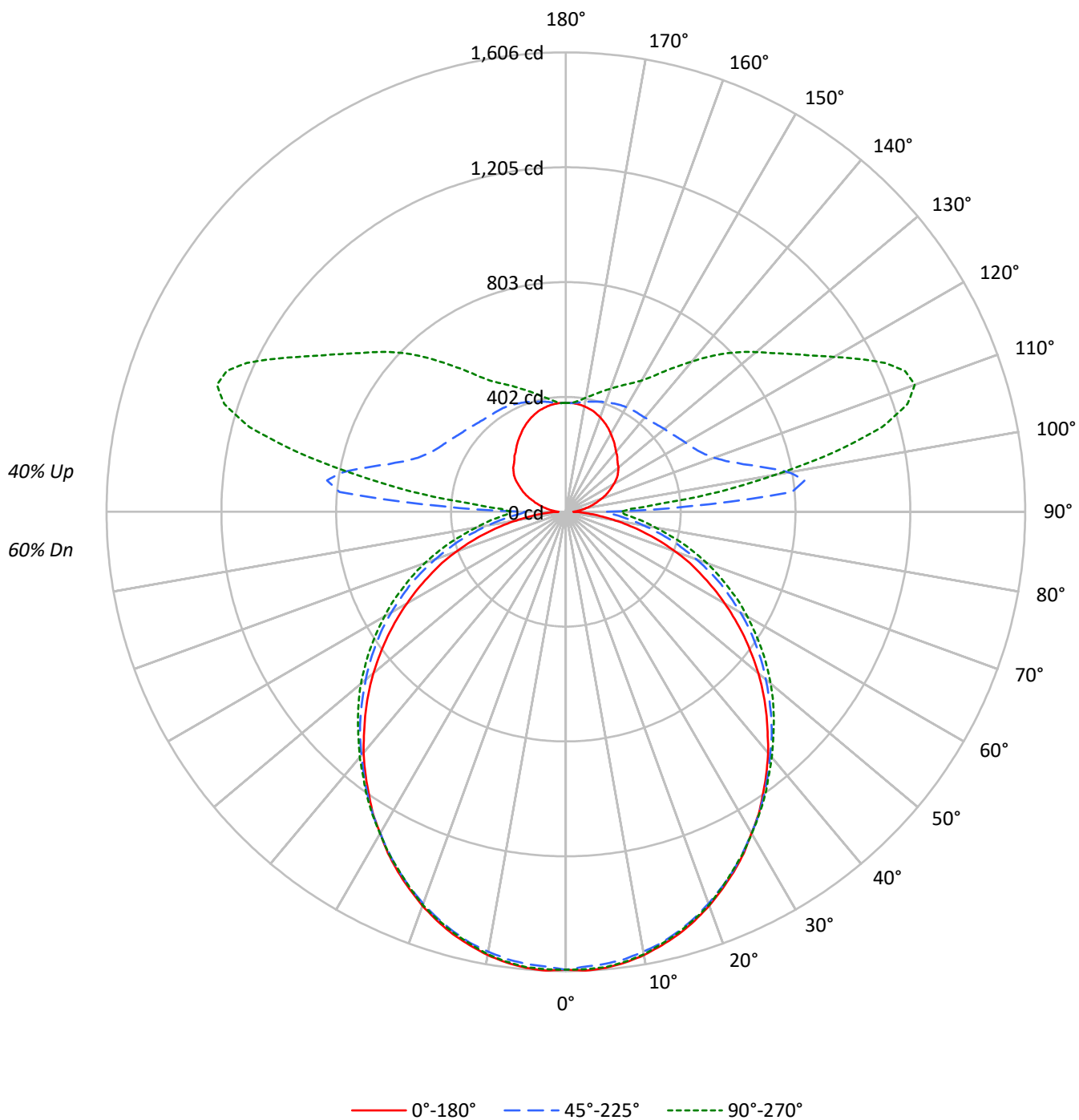
Lumens per Lamp: N/A
Luminaire Lumens: 7823.8 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	99	94	90	86	92	88	84	81	76	74	71	66	64	62	56	54	53
2	90	82	75	70	83	77	71	66	67	62	58	57	54	51	49	46	44
3	82	72	64	58	76	67	60	55	58	53	49	50	46	43	43	40	37
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28
6	63	50	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	24	21
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	1.9
10°-20°	430.0	5.5
20°-30°	639.5	8.2
30°-40°	757.3	9.7
40°-50°	782.9	10.0
50°-60°	721.2	9.2
60°-70°	583.0	7.5
70°-80°	390.1	5.0
80°-90°	203.2	2.6
90°-100°	400.1	5.1
100°-110°	678.8	8.7
110°-120°	611.9	7.8
120°-130°	481.5	6.2
130°-140°	375.3	4.8
140°-150°	275.5	3.5
150°-160°	192.1	2.5
160°-170°	113.2	1.4
170°-180°	36.8	0.5
0°-30°	1221.0	15.6
0°-40°	1978.3	25.3
0°-60°	3482.4	44.5
0°-90°	4658.8	59.5
90°-120°	1690.8	21.6
90°-150°	2823.0	36.1
90°-180°	3165.0	40.5
0°-180°	7823.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	26	82	141	181	193	19
95°	46	136	794	457	340	42
105°	101	160	642	1213	1145	106
115°	164	207	508	1052	1231	162
125°	221	256	464	827	961	196
135°	255	304	438	675	782	198
145°	295	336	426	539	599	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°	1600.8	1600.8	1600.8	1600.8	1600.8
2.5°	1605.5	1602.4	1591.4	1602.4	1600.8
5°	1600.8	1597.7	1586.7	1599.2	1597.7
7.5°	1589.8	1588.2	1577.3	1588.2	1586.7
10°	1574.1	1574.1	1561.6	1572.6	1571.0
12.5°	1552.1	1553.7	1544.3	1552.1	1547.4
15°	1528.6	1530.2	1519.2	1528.6	1522.3
17.5°	1498.8	1501.9	1490.9	1498.8	1494.1
20°	1465.8	1469.0	1458.0	1462.7	1462.7
22.5°	1428.2	1434.4	1421.9	1428.2	1423.5
25°	1388.9	1393.6	1384.2	1390.5	1382.7
27.5°	1346.6	1352.8	1341.8	1346.6	1343.4
30°	1297.9	1307.3	1297.9	1301.0	1299.5
32.5°	1254.0	1261.8	1255.5	1258.7	1257.1
35°	1202.2	1213.2	1208.4	1213.2	1213.2
37.5°	1151.9	1161.4	1159.8	1166.1	1164.5
40°	1100.2	1112.7	1111.1	1117.4	1120.6
42.5°	1043.7	1060.9	1065.6	1073.5	1073.5
45°	990.3	1007.6	1015.4	1026.4	1028.0
47.5°	935.4	951.1	963.6	979.3	982.5
50°	878.9	896.1	913.4	930.7	935.4
52.5°	819.2	841.2	863.2	882.0	885.1
55°	761.2	786.3	811.4	828.6	834.9
57.5°	701.5	731.3	759.6	778.4	783.1
60°	641.9	673.3	704.7	728.2	732.9
62.5°	583.8	615.2	649.7	676.4	682.7
65°	524.2	560.3	597.9	621.5	627.8
67.5°	469.3	503.8	541.4	569.7	577.5
70°	408.0	444.1	484.9	514.8	524.2
72.5°	348.4	386.1	431.6	464.5	470.8
75°	288.8	329.6	379.8	411.2	419.0
77.5°	230.7	277.8	324.9	359.4	365.7
80°	177.3	224.4	277.8	312.3	318.6
82.5°	128.7	178.9	233.8	266.8	279.4
85°	86.3	138.1	193.0	227.6	240.1
87.5°	54.9	105.2	158.5	194.6	205.6
90°	25.9	82.2	141.0	180.9	193.4
92.5°	33.5	130.4	428.4	238.6	224.7
95°	45.7	136.0	794.2	457.4	340.3
97.5°	57.9	137.4	842.3	698.0	547.2
100°	71.0	143.0	793.0	920.4	741.1
102.5°	85.5	151.8	714.0	1107.4	960.3
105°	100.8	160.4	642.4	1212.6	1145.0
107.5°	115.4	171.4	588.5	1238.2	1252.2
110°	131.4	183.2	550.9	1200.1	1298.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	149.1	195.0	526.2	1128.9	1284.1
115°	164.3	207.2	507.6	1051.7	1231.0
117.5°	178.1	219.7	494.4	979.4	1156.5
120°	193.4	233.1	483.6	919.0	1082.6
122.5°	208.0	244.4	473.5	867.8	1016.5
125°	221.1	256.3	464.1	826.7	961.1
127.5°	230.2	269.2	456.3	788.9	911.1
130°	240.2	283.0	450.0	752.4	868.7
132.5°	246.2	295.4	443.7	713.5	826.4
135°	254.7	304.2	437.5	674.6	781.7
137.5°	265.4	313.8	433.5	635.7	734.1
140°	273.1	321.8	429.6	599.5	685.6
142.5°	283.9	327.9	427.2	567.5	640.2
145°	294.6	335.5	426.5	538.9	598.6
147.5°	304.5	342.4	424.9	515.0	559.3
150°	314.5	348.6	422.6	496.3	529.3
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)