

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: P1027594

Luminaire Tested: S125DIP-B1270D1270UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027594
REPORT IS A COMBINATION OF REPORTS P1001617 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB35-4F0-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

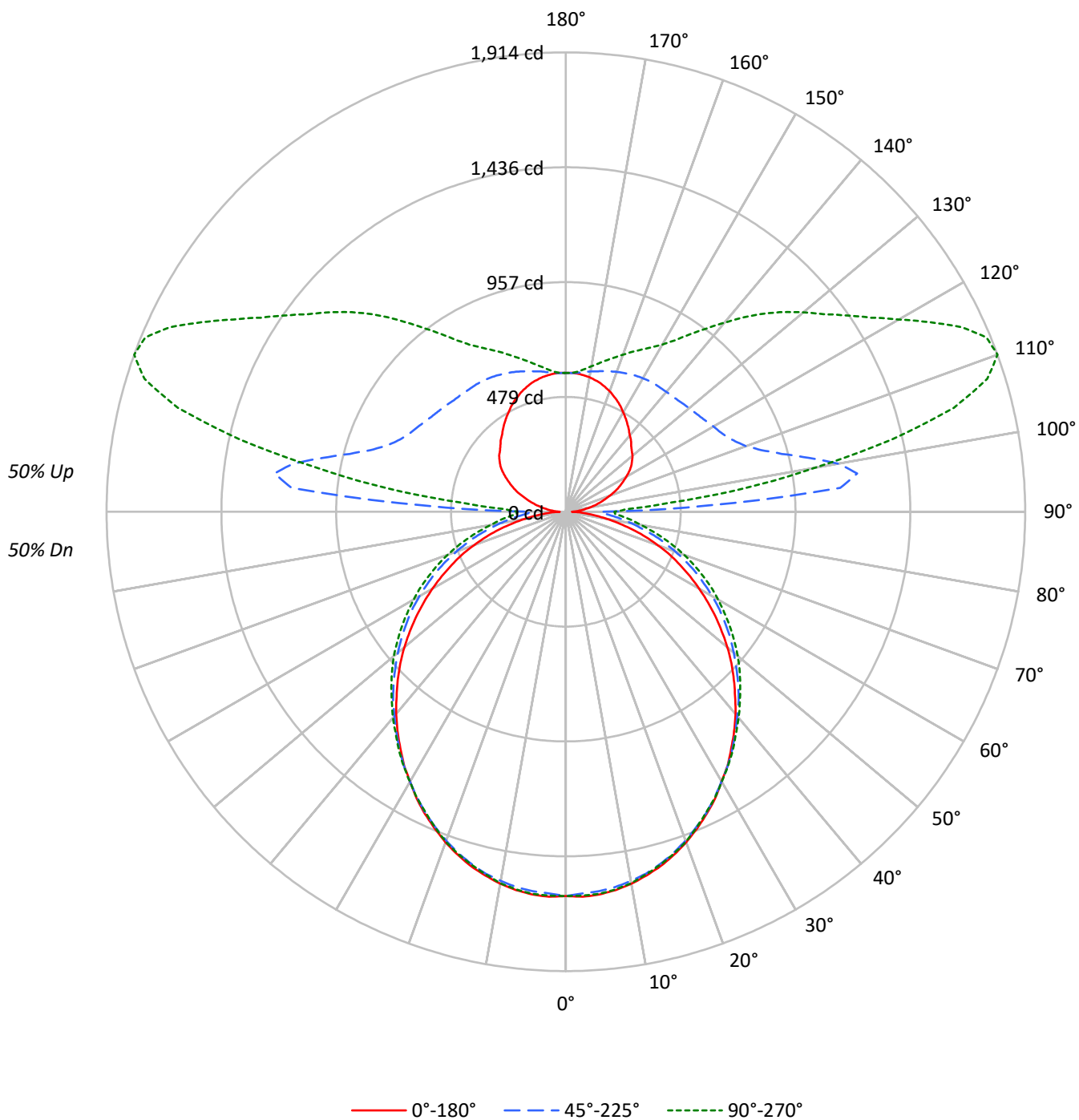
Lumens per Lamp: N/A
Luminaire Lumens: 9314.9 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	50
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	48	47	46	46	46	41
2	88	80	74	68	81	74	69	64	63	58	55	52	49	46	42	40	38	38	38	33
3	80	70	63	57	74	65	58	53	55	50	46	46	42	39	37	34	32	32	32	28
4	73	62	54	48	67	57	50	45	49	43	39	41	36	33	33	30	27	27	27	24
5	67	55	47	41	62	51	44	38	43	38	33	36	32	28	30	26	24	24	24	21
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	24	21	21	21	18
7	57	45	36	31	52	41	34	29	35	30	25	30	25	22	25	21	18	18	18	16
8	53	40	33	27	49	38	31	26	32	27	23	27	23	20	23	19	17	17	17	14
9	49	37	29	24	45	34	27	23	30	24	20	25	21	17	21	17	15	15	15	13
10	46	34	26	22	42	32	25	20	27	22	18	23	19	16	19	16	14	14	14	12

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	1.6
10°-20°	430.0	4.6
20°-30°	639.5	6.9
30°-40°	757.3	8.1
40°-50°	782.9	8.4
50°-60°	721.2	7.7
60°-70°	583.0	6.3
70°-80°	390.1	4.2
80°-90°	204.0	2.2
90°-100°	549.2	5.9
100°-110°	988.5	10.6
110°-120°	901.2	9.7
120°-130°	715.6	7.7
130°-140°	563.3	6.0
140°-150°	417.5	4.5
150°-160°	292.0	3.1
160°-170°	172.1	1.8
170°-180°	56.0	0.6
0°-30°	1221.0	13.1
0°-40°	1978.3	21.2
0°-60°	3482.4	37.4
0°-90°	4659.6	50.0
90°-120°	2438.9	26.2
90°-150°	4135.2	44.4
90°-180°	4655.0	50.0
0°-180°	9314.9	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	86	147	189	203	20
95°	59	175	1148	618	434	56
105°	146	223	932	1782	1674	154
115°	245	304	740	1553	1820	241
125°	333	387	687	1225	1425	295
135°	386	462	659	1009	1167	299
145°	447	510	648	815	903	280
155°	508	547	632	714	745	234
165°	555	570	606	643	653	156
175°	577	577	582	589	587	55
180°	578	578	578	578	578	

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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°	26.3	85.8	147.4	189.3	202.6
92.5°	39.5	163.1	587.7	281.1	254.2
95°	58.9	174.9	1147.9	617.9	434.2
97.5°	78.3	179.6	1224.4	987.9	752.8
100°	98.9	191.3	1153.5	1330.0	1052.5
102.5°	121.8	207.0	1036.5	1618.4	1389.9
105°	145.9	223.4	931.8	1782.5	1673.9
107.5°	168.9	242.6	853.2	1824.6	1841.0
110°	194.1	263.0	799.2	1770.8	1914.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.9	283.4	764.9	1666.6	1896.9
115°	245.0	304.4	739.9	1552.6	1820.2
117.5°	266.7	325.9	723.1	1446.6	1710.2
120°	290.0	347.9	709.9	1358.1	1602.0
122.5°	313.0	367.6	697.8	1284.4	1505.5
125°	332.8	387.2	686.9	1225.1	1425.4
127.5°	347.6	407.8	678.2	1171.8	1352.6
130°	362.7	428.8	671.2	1119.4	1292.3
132.5°	372.8	447.4	664.9	1063.6	1232.0
135°	385.6	461.6	658.7	1008.6	1167.4
137.5°	401.9	476.2	655.1	952.6	1098.9
140°	414.4	488.5	651.5	900.9	1028.5
142.5°	430.8	498.6	649.6	855.5	962.7
145°	447.1	510.2	648.4	815.4	902.8
147.5°	463.0	520.8	646.1	781.6	847.1
150°	478.2	530.0	642.6	754.6	804.0
152.5°	494.5	539.4	637.9	734.2	772.0
155°	508.5	547.0	632.1	714.3	745.2
157.5°	521.3	554.6	626.3	695.6	720.7
160°	534.1	560.4	620.4	677.0	696.2
162.5°	544.6	566.2	613.4	660.1	674.1
165°	555.1	570.3	606.4	643.2	653.1
167.5°	562.1	572.6	599.4	627.4	633.3
170°	569.1	575.6	593.6	612.2	615.8
172.5°	573.8	576.7	586.6	600.0	599.4
175°	577.3	577.3	581.9	588.9	586.6
177.5°	579.6	577.3	578.4	581.9	578.4
180°	578.4	578.4	578.4	578.4	578.4

(END OF REPORT)