

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: P1027638

Luminaire Tested: S125DIP-B1270D375UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027638
REPORT IS A COMBINATION OF REPORTS P1001676 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

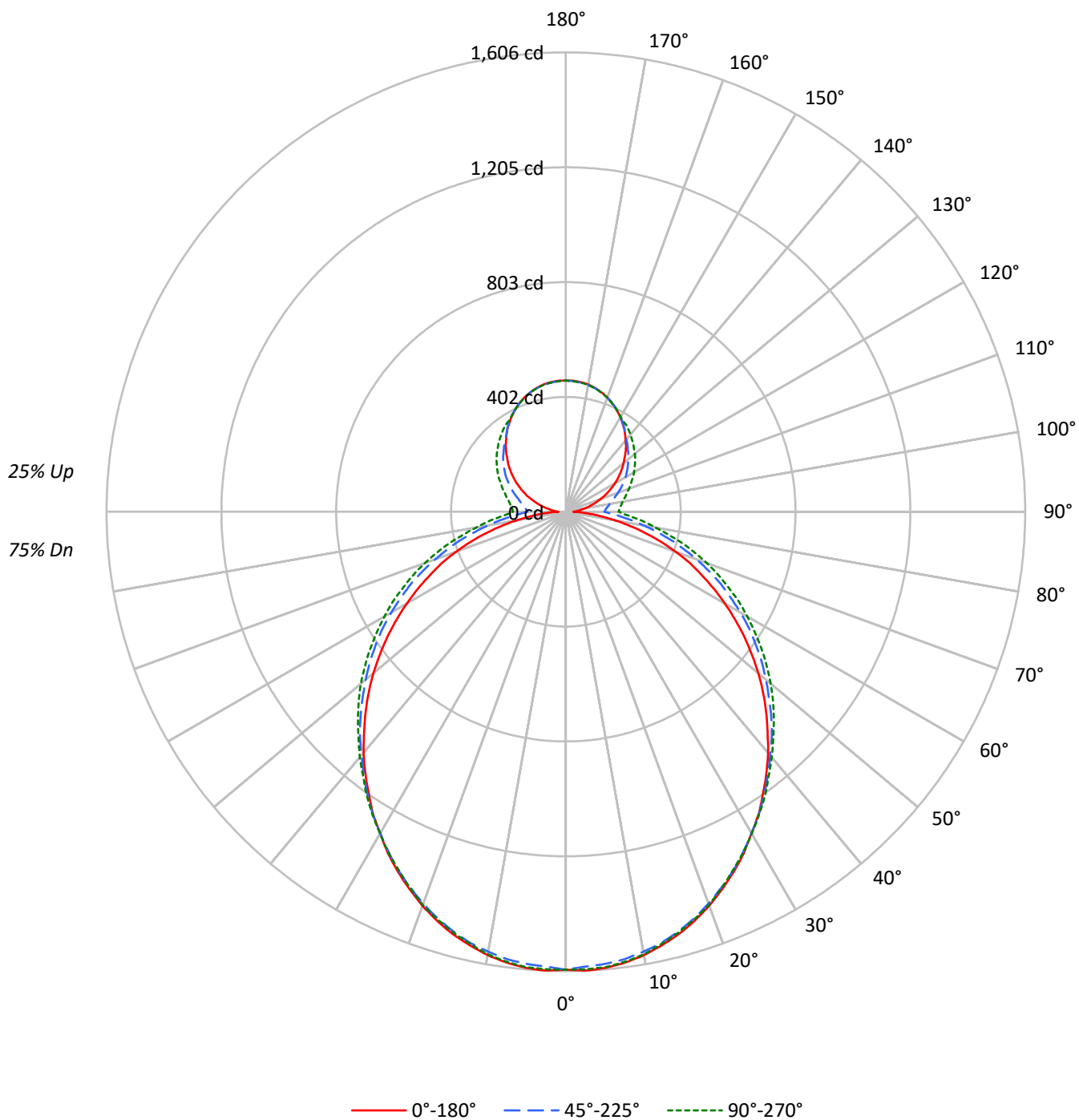
Lumens per Lamp: N/A
Luminaire Lumens: 6240.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	102	97	93	89	97	92	89	85	84	80	78	75	73	71	68	66	64
2	93	84	77	72	88	80	74	69	73	68	63	66	62	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	58	53	49	52	48	45
4	77	65	57	50	73	62	54	48	57	50	45	51	46	42	46	42	38
5	71	58	49	43	67	56	47	41	51	44	39	46	40	36	42	37	33
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	38	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26
8	56	43	35	29	53	41	34	28	38	31	27	35	29	25	32	27	23
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21
10	49	36	28	23	47	35	28	23	32	26	22	30	24	20	27	22	19

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	2.4
10°-20°	430.0	6.9
20°-30°	639.5	10.2
30°-40°	757.3	12.1
40°-50°	782.9	12.5
50°-60°	721.2	11.6
60°-70°	583.0	9.3
70°-80°	390.1	6.3
80°-90°	202.4	3.2
90°-100°	144.1	2.3
100°-110°	174.3	2.8
110°-120°	209.7	3.4
120°-130°	234.1	3.8
130°-140°	240.6	3.9
140°-150°	225.0	3.6
150°-160°	186.7	3.0
160°-170°	124.1	2.0
170°-180°	43.4	0.7
0°-30°	1221.0	19.6
0°-40°	1978.3	31.7
0°-60°	3482.4	55.8
0°-90°	4658.0	74.6
90°-120°	528.2	8.5
90°-150°	1227.8	19.7
90°-180°	1582.0	25.4
0°-180°	6240.0	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	78	134	172	184	19
95°	44	85	142	179	191	40
105°	96	122	172	205	217	102
115°	163	176	217	245	254	162
125°	231	231	263	288	295	206
135°	295	296	307	328	334	228
145°	355	355	356	364	369	222
155°	405	405	405	407	405	186
165°	440	440	440	441	439	124
175°	458	456	456	458	456	43
180°	459	459	459	459	459	

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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°	25.5	78.5	134.4	172.3	184.4
92.5°	32.7	80.0	138.1	175.1	186.8
95°	43.6	85.1	142.1	179.1	190.8
97.5°	54.5	92.6	149.4	184.4	195.8
100°	67.3	100.2	155.0	191.2	201.3
102.5°	81.0	112.6	163.1	198.1	208.5
105°	95.5	122.4	171.6	205.2	217.2
107.5°	111.5	135.2	182.5	214.9	224.3
110°	128.1	148.7	193.7	224.6	235.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.7	161.5	205.3	233.9	244.1
115°	163.3	175.7	217.2	245.1	254.2
117.5°	180.2	188.5	228.4	255.5	265.0
120°	197.4	203.9	240.4	267.0	275.0
122.5°	214.4	216.3	252.0	276.7	285.0
125°	230.8	231.4	263.1	287.5	295.1
127.5°	247.5	246.9	274.0	297.2	305.9
130°	263.5	263.7	286.4	308.1	315.1
132.5°	278.0	281.2	296.5	318.2	323.4
135°	295.1	295.8	307.1	327.5	333.9
137.5°	311.2	311.8	318.7	338.0	342.5
140°	325.0	326.8	329.4	347.4	351.9
142.5°	340.4	340.2	341.6	356.1	360.6
145°	355.4	355.2	356.3	364.1	369.3
147.5°	367.7	368.8	369.5	373.7	374.0
150°	381.6	381.3	382.7	382.7	383.6
152.5°	393.0	393.8	394.1	395.2	393.8
155°	404.8	404.8	405.2	406.6	404.8
157.5°	415.5	414.8	415.2	416.6	414.1
160°	424.8	423.7	424.1	425.5	423.7
162.5°	433.0	432.3	432.3	434.1	432.0
165°	440.2	439.5	439.8	441.2	439.1
167.5°	446.6	445.2	445.2	447.3	445.2
170°	451.6	450.2	450.2	452.3	449.8
172.5°	455.2	453.7	453.7	455.9	453.7
175°	457.7	456.2	456.2	458.4	455.9
177.5°	459.4	458.0	457.7	459.8	457.3
180°	458.7	458.7	458.7	458.7	458.7

(END OF REPORT)