

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: P1027639

Luminaire Tested: S125DIP-B1270D375UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027639
REPORT IS A COMBINATION OF REPORTS P1001677 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-D4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

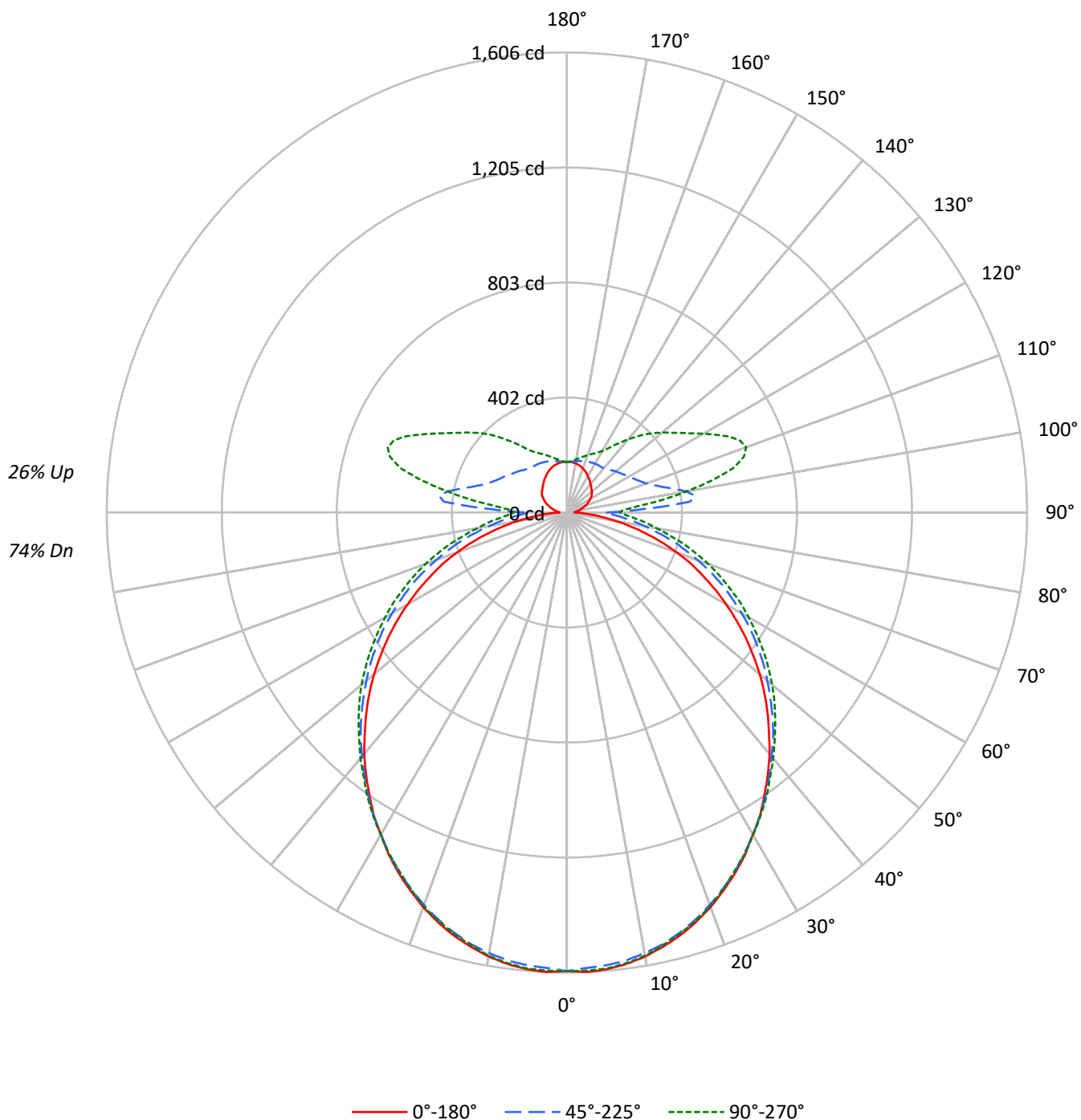
Lumens per Lamp: N/A
Luminaire Lumens: 6292.7 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	87	87	87	78	78	78
1	102	97	93	89	97	92	88	85	83	80	77	75	73	70	67	66	64
2	93	84	77	72	87	80	74	69	72	67	63	65	61	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	57	53	49	52	48	45
4	77	65	57	50	73	62	54	48	56	50	45	51	46	41	46	42	38
5	71	58	49	43	67	55	47	41	50	44	39	46	40	36	41	37	33
6	65	52	43	37	62	50	42	36	45	39	34	41	36	31	37	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	29	26
8	56	43	35	29	53	41	33	28	38	31	26	34	29	25	31	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	46	35	28	23	32	26	21	29	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	6.8
20°-30°	639.5	10.2
30°-40°	757.3	12.0
40°-50°	782.9	12.4
50°-60°	721.2	11.5
60°-70°	583.0	9.3
70°-80°	390.1	6.2
80°-90°	202.4	3.2
90°-100°	247.0	3.9
100°-110°	360.7	5.7
110°-120°	314.8	5.0
120°-130°	241.1	3.8
130°-140°	182.1	2.9
140°-150°	129.7	2.1
150°-160°	89.4	1.4
160°-170°	52.7	0.8
170°-180°	17.1	0.3
0°-30°	1221.0	19.4
0°-40°	1978.3	31.4
0°-60°	3482.4	55.3
0°-90°	4658.0	74.0
90°-120°	922.5	14.7
90°-150°	1475.5	23.4
90°-180°	1635.0	26.0
0°-180°	6292.7	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	79	134	172	184	18
95°	32	96	431	293	244	28
105°	54	96	345	627	602	58
115°	82	107	269	537	626	80
125°	106	122	235	418	484	94
135°	120	142	210	332	386	93
145°	138	156	198	255	286	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

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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	78.6	134.4	172.3	184.0
92.5°	27.4	96.8	264.9	194.9	194.3
95°	32.2	96.1	431.0	292.6	244.0
97.5°	37.0	94.2	450.0	400.4	336.1
100°	42.3	93.4	422.8	499.8	421.3
102.5°	48.2	95.0	382.7	582.6	519.2
105°	54.5	95.6	345.2	627.4	601.8
107.5°	60.4	98.2	316.7	635.9	647.5
110°	67.1	101.2	295.9	614.1	665.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.3	104.2	281.0	576.7	654.8
115°	81.5	107.4	269.0	537.4	626.0
117.5°	87.1	110.7	259.5	499.6	587.9
120°	94.2	115.2	251.2	468.1	549.3
122.5°	100.2	118.0	243.1	440.2	514.3
125°	106.3	121.8	235.4	417.6	484.4
127.5°	109.7	127.0	228.3	395.8	457.7
130°	114.3	133.4	222.9	375.4	433.8
132.5°	116.3	139.2	216.6	354.0	409.9
135°	120.2	142.4	210.4	331.7	385.7
137.5°	125.2	146.9	206.0	310.2	359.4
140°	128.0	150.7	201.6	290.0	333.4
142.5°	133.0	152.6	198.9	271.8	308.9
145°	138.0	156.2	198.5	255.1	286.2
147.5°	141.8	159.4	197.8	241.4	263.8
150°	146.4	162.3	196.8	231.0	247.3
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)