

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: P1027798

Luminaire Tested: S125DIP-B375D1270UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027798
REPORT IS A COMBINATION OF REPORTS P1001884 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1270UB27-4F0-XX-W2A-D4
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

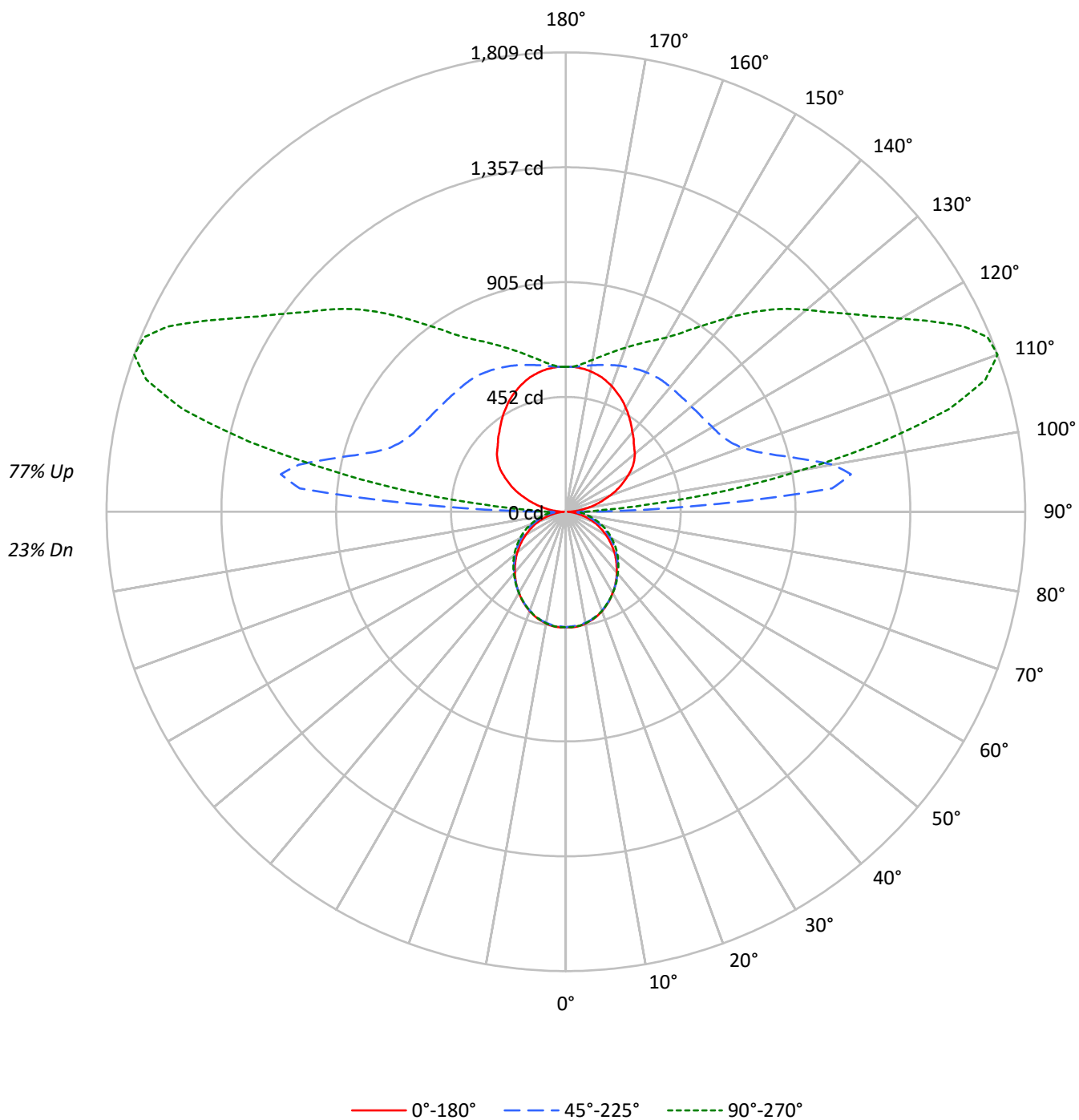
Lumens per Lamp: N/A
Luminaire Lumens: 5708.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	32	32	32	23		
1	91	87	83	80	81	77	74	71	59	57	55	43	41	40	27	27	26	19		
2	83	76	70	65	73	67	62	58	52	48	45	37	35	33	24	23	21	15		
3	76	66	59	54	67	59	53	48	45	41	38	33	30	28	21	19	18	13		
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	15	11		
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	13	10		
6	58	46	39	33	51	41	35	30	32	27	24	23	20	18	15	13	12	8		
7	54	42	34	29	47	37	31	26	29	24	21	21	18	15	14	12	10	7		
8	50	38	30	25	44	34	27	23	26	22	18	19	16	14	13	11	9	7		
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8	6		
10	43	31	24	20	38	28	22	18	22	17	14	16	13	11	11	9	7	5		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2488 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.8
10°-20°	122.2	2.1
20°-30°	181.7	3.2
30°-40°	215.2	3.8
40°-50°	222.5	3.9
50°-60°	204.9	3.6
60°-70°	165.7	2.9
70°-80°	110.8	1.9
80°-90°	59.6	1.0
90°-100°	462.3	8.1
100°-110°	916.9	16.1
110°-120°	850.2	14.9
120°-130°	684.0	12.0
130°-140°	546.3	9.6
140°-150°	410.2	7.2
150°-160°	288.2	5.0
160°-170°	169.9	3.0
170°-180°	55.2	1.0
0°-30°	346.9	6.1
0°-40°	562.1	9.8
0°-60°	989.5	17.3
0°-90°	1325.5	23.2
90°-120°	2229.4	39.1
90°-150°	3869.9	67.8
90°-180°	4383.0	76.8
0°-180°	5708.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	32	55	71	76	8
95°	44	130	1053	505	316	44
105°	134	193	859	1677	1562	141
115°	235	286	687	1470	1727	232
125°	324	379	653	1166	1358	288
135°	378	455	641	972	1124	294
145°	440	504	640	799	881	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	8.3	31.8	55.0	70.9	76.4
92.5°	23.5	113.6	494.1	167.2	132.9
95°	43.8	129.6	1052.6	505.2	316.0
97.5°	64.1	137.6	1132.5	875.8	636.2
100°	85.5	153.6	1068.0	1219.1	938.5
102.5°	109.3	172.3	957.0	1509.2	1277.0
105°	134.1	193.0	859.1	1676.8	1561.9
107.5°	157.9	215.3	785.9	1722.8	1732.3
110°	183.8	238.8	737.0	1675.0	1808.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	210.3	262.1	707.6	1577.9	1797.4
115°	235.2	286.1	687.4	1469.6	1727.3
117.5°	257.8	310.7	675.2	1370.7	1623.0
120°	280.8	334.6	666.5	1287.8	1521.8
122.5°	304.6	357.3	659.0	1220.5	1432.0
125°	324.1	378.9	652.7	1166.3	1358.4
127.5°	339.8	400.3	648.6	1119.2	1291.0
130°	354.7	421.1	644.9	1071.9	1237.0
132.5°	365.8	439.5	643.2	1021.2	1183.0
135°	378.5	454.6	641.4	972.4	1123.7
137.5°	394.6	468.9	641.1	921.6	1061.6
140°	407.9	481.0	641.0	875.0	996.5
142.5°	424.0	492.1	641.2	834.6	936.0
145°	440.2	503.6	640.1	799.4	881.2
147.5°	457.0	514.0	637.8	769.3	831.8
150°	472.0	523.2	634.3	744.8	792.4
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)