

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: P1027843

Luminaire Tested: S125DIP-B375D375UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027843
REPORT IS A COMBINATION OF REPORTS P1001944 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D375UB27-4F0-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

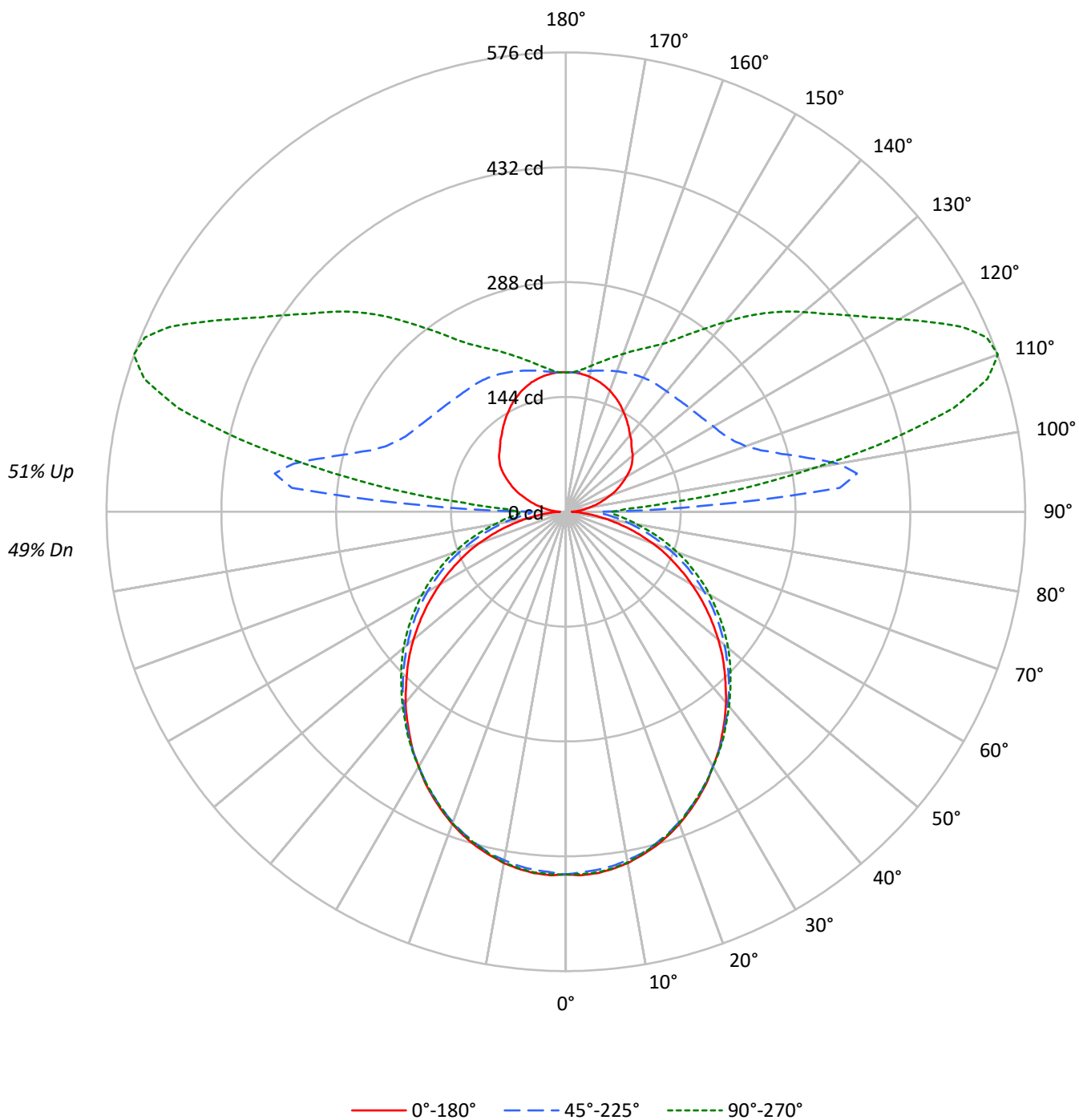
Lumens per Lamp: N/A
Luminaire Lumens: 2725.7 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49		
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	47	46	45	39		
2	88	80	74	68	80	74	68	63	62	58	54	51	48	46	41	39	37	32		
3	80	70	63	56	73	65	58	53	54	49	45	45	41	38	36	34	31	27		
4	73	62	54	48	67	57	50	44	48	43	38	40	36	33	32	29	27	23		
5	67	55	47	41	61	51	44	38	43	37	33	36	31	28	29	26	23	20		
6	62	49	41	35	56	46	38	33	39	33	29	32	28	24	26	23	20	17		
7	57	44	36	31	52	41	34	29	35	29	25	29	25	22	24	21	18	15		
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	14		
9	49	37	29	24	45	34	27	23	29	24	20	25	20	17	20	17	15	12		
10	46	34	26	21	42	31	25	20	27	22	18	23	19	16	19	16	13	11		

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	1.6
10°-20°	122.2	4.5
20°-30°	181.7	6.7
30°-40°	215.2	7.9
40°-50°	222.5	8.2
50°-60°	204.9	7.5
60°-70°	165.7	6.1
70°-80°	110.8	4.1
80°-90°	58.0	2.1
90°-100°	164.0	6.0
100°-110°	297.3	10.9
110°-120°	271.4	10.0
120°-130°	215.7	7.9
130°-140°	170.0	6.2
140°-150°	126.1	4.6
150°-160°	88.3	3.2
160°-170°	52.0	1.9
170°-180°	16.9	0.6
0°-30°	346.9	12.7
0°-40°	562.1	20.6
0°-60°	989.5	36.3
0°-90°	1323.9	48.6
90°-120°	732.6	26.9
90°-150°	1244.5	45.7
90°-180°	1402.0	51.4
0°-180°	2725.7	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	24	42	54	58	6
95°	17	52	345	184	128	17
105°	44	67	280	537	504	46
115°	74	92	223	468	548	73
125°	100	117	207	369	430	89
135°	116	140	199	304	352	90
145°	135	154	196	246	273	85
155°	154	165	191	216	225	71
165°	168	172	183	194	197	47
175°	174	174	176	178	177	17
180°	175	175	175	175	175	

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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°	7.5	24.5	42.2	54.2	58.0
92.5°	11.5	48.2	175.5	82.2	73.8
95°	17.4	51.7	344.9	184.1	128.3
97.5°	23.4	53.3	368.2	296.0	224.8
100°	29.6	57.0	346.8	399.6	315.6
102.5°	36.6	61.7	311.6	487.0	417.6
105°	43.8	66.8	280.1	536.6	503.7
107.5°	50.8	72.7	256.4	549.6	554.3
110°	58.4	79.0	240.3	533.3	576.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.6	85.2	230.0	502.0	571.4
115°	73.9	91.6	222.6	467.6	548.4
117.5°	80.5	98.2	217.6	435.8	515.2
120°	87.5	105.0	213.7	409.2	482.7
122.5°	94.5	111.0	210.1	387.0	453.6
125°	100.5	116.9	207.0	369.2	429.6
127.5°	104.9	123.2	204.5	353.3	407.7
130°	109.5	129.6	202.4	337.5	389.6
132.5°	112.6	135.2	200.7	320.8	371.6
135°	116.5	139.5	198.9	304.2	352.1
137.5°	121.5	143.8	197.9	287.5	331.6
140°	125.2	147.6	196.9	272.0	310.4
142.5°	130.1	150.7	196.4	258.4	290.6
145°	135.1	154.2	196.0	246.4	272.6
147.5°	140.0	157.4	195.3	236.2	256.0
150°	144.5	160.2	194.2	228.1	242.9
152.5°	149.5	163.0	192.8	221.9	233.4
155°	153.7	165.4	191.1	216.0	225.3
157.5°	157.6	167.6	189.3	210.3	217.9
160°	161.5	169.4	187.5	204.6	210.5
162.5°	164.6	171.2	185.4	199.6	203.8
165°	167.8	172.4	183.3	194.4	197.4
167.5°	169.9	173.1	181.2	189.7	191.4
170°	172.0	174.0	179.4	185.0	186.1
172.5°	173.4	174.3	177.3	181.4	181.2
175°	174.5	174.5	175.9	178.0	177.3
177.5°	175.2	174.5	174.9	175.9	174.9
180°	174.9	174.9	174.9	174.9	174.9

(END OF REPORT)