

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: P1011999

Luminaire Tested: S123DIP-B775D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011999
REPORT IS A COMBINATION OF REPORTS P990368 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B775D365UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

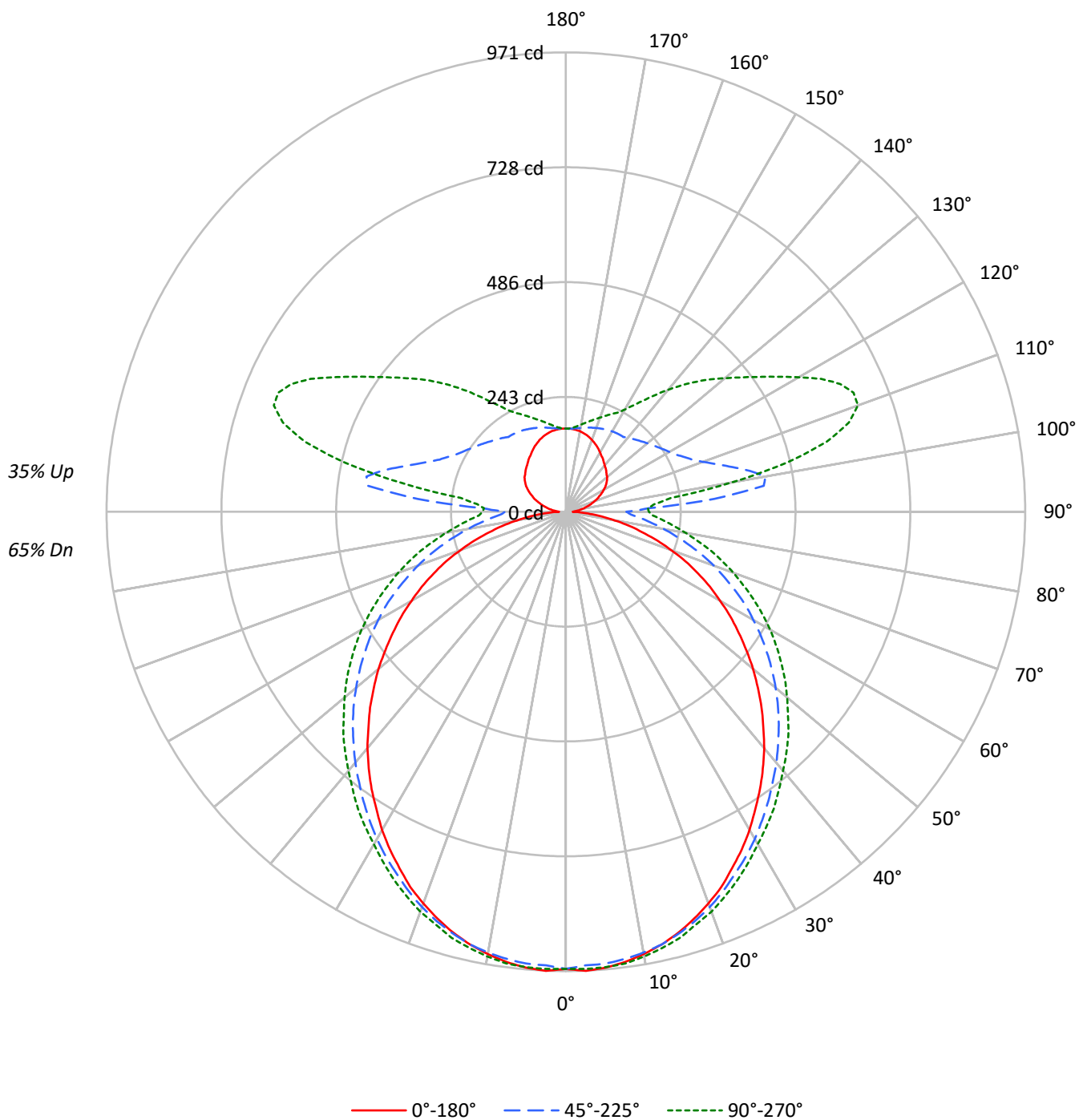
Lumens per Lamp: N/A
Luminaire Lumens: 4572.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	90	86	93	89	85	82	78	75	73	69	66	64	60	58	56
2	90	82	75	69	84	77	71	66	68	63	59	60	56	53	52	49	46
3	82	72	64	57	77	67	60	54	60	54	49	52	48	44	45	42	39
4	75	63	55	48	70	60	52	46	53	46	42	46	41	37	40	36	33
5	69	56	48	41	64	53	45	39	47	41	36	41	36	32	36	32	29
6	63	50	42	36	59	48	40	34	42	36	31	37	32	28	33	29	25
7	59	46	37	31	55	43	35	30	38	32	27	34	29	25	30	26	22
8	54	41	33	28	51	39	32	26	35	29	24	31	26	22	27	23	20
9	51	38	30	25	47	36	29	24	32	26	22	29	24	20	25	21	18
10	47	35	27	22	44	33	26	21	30	24	20	26	21	18	24	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10399	10399	10399
5°	10428	10094	10086
10°	10330	9820	9746
15°	10194	9519	9385
20°	9999	9182	8997
25°	9760	8803	8596
30°	9516	8460	8193
35°	9243	8101	7865
40°	8980	7771	7518
45°	8691	7453	7232
50°	8404	7136	6922
55°	8085	6814	6637
60°	7775	6482	6345
65°	7455	6129	6002
70°	6973	5733	5650
75°	6364	5281	5285
80°	5657	4825	4870
85°	4956	4456	4573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	2.0
10°-20°	261.3	5.7
20°-30°	390.7	8.5
30°-40°	466.5	10.2
40°-50°	488.1	10.7
50°-60°	458.0	10.0
60°-70°	382.6	8.4
70°-80°	273.6	6.0
80°-90°	163.8	3.6
90°-100°	202.1	4.4
100°-110°	354.1	7.7
110°-120°	322.2	7.0
120°-130°	245.2	5.4
130°-140°	183.8	4.0
140°-150°	130.2	2.8
150°-160°	89.0	1.9
160°-170°	52.3	1.1
170°-180°	17.0	0.4
0°-30°	743.6	16.3
0°-40°	1210.1	26.5
0°-60°	2156.2	47.2
0°-90°	2976.1	65.1
90°-120°	878.4	19.2
90°-150°	1437.7	31.4
90°-180°	1596.0	34.9
0°-180°	4572.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	967	965	959	967	966	92
15°	921	924	923	934	932	259
25°	831	842	845	859	859	383
35°	716	732	746	762	766	448
45°	585	610	637	657	665	451
55°	446	481	519	547	556	400
65°	308	349	396	427	438	305
75°	167	217	269	304	317	179
85°	52	104	160	196	206	53
90°	14	70	128	165	176	11
95°	24	92	315	198	188	22
105°	50	95	365	608	570	52
115°	78	109	274	560	640	78
125°	104	123	238	426	497	93
135°	121	143	214	336	388	93
145°	136	155	199	258	287	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.1	966.1	966.1	966.1	966.1
2.5°	971.4	968.2	959.8	968.2	967.2
5°	967.2	965.1	958.8	967.2	966.1
7.5°	959.8	959.8	953.5	964.0	963.0
10°	949.3	951.4	946.1	956.7	954.6
12.5°	936.7	939.8	936.7	946.1	944.0
15°	920.9	924.0	923.0	933.5	932.5
17.5°	901.9	908.3	907.2	916.7	914.6
20°	880.9	887.2	889.3	898.8	899.8
22.5°	858.8	865.1	868.3	880.9	879.8
25°	831.4	842.0	845.1	858.8	858.8
27.5°	805.1	816.7	823.0	834.6	835.6
30°	776.7	790.4	798.8	811.4	811.4
32.5°	745.1	760.9	772.5	786.2	789.3
35°	715.7	732.5	746.2	762.0	766.2
37.5°	684.1	703.0	718.8	736.7	739.9
40°	652.5	671.5	692.5	710.4	714.6
42.5°	617.8	642.0	664.1	684.1	690.4
45°	585.2	610.4	636.7	656.7	665.1
47.5°	550.4	578.8	608.3	630.4	636.7
50°	516.8	546.2	578.8	603.1	610.4
52.5°	481.0	512.5	549.4	574.6	584.1
55°	446.2	481.0	518.9	547.3	555.7
57.5°	412.6	448.3	489.4	517.8	527.3
60°	376.8	414.7	457.8	487.3	498.9
62.5°	343.1	382.0	428.3	457.8	468.3
65°	308.4	349.4	395.7	427.3	437.8
67.5°	273.6	316.8	363.1	397.8	406.2
70°	236.8	282.1	332.6	366.3	376.8
72.5°	203.1	248.4	301.0	335.7	346.3
75°	167.3	216.8	269.4	304.2	316.8
77.5°	136.8	186.3	238.9	275.7	285.2
80°	104.2	155.8	210.5	246.3	256.8
82.5°	75.8	128.4	184.2	220.0	230.5
85°	51.6	104.2	160.0	195.8	206.3
87.5°	31.6	84.2	137.9	173.7	184.2
90°	14.4	69.6	127.8	164.6	175.5
92.5°	17.9	79.2	176.6	167.8	173.5
95°	23.7	91.9	315.0	198.3	188.5
97.5°	29.7	93.4	422.1	284.2	224.6
100°	35.8	92.8	428.3	445.6	355.5
102.5°	42.2	92.8	398.8	547.9	478.2
105°	49.6	94.7	364.7	608.2	570.1
107.5°	56.5	97.6	333.9	630.2	627.4
110°	63.9	100.6	308.4	624.8	657.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.7	104.0	288.5	597.4	658.1
115°	78.2	108.7	274.4	560.4	639.5
117.5°	85.6	112.0	262.1	521.4	608.2
120°	92.4	115.2	252.9	484.2	568.2
122.5°	99.1	119.2	245.1	453.6	531.3
125°	104.5	122.8	237.8	425.5	496.8
127.5°	109.5	128.1	231.4	401.5	466.3
130°	114.1	133.8	225.1	378.8	439.1
132.5°	116.6	139.0	219.5	357.1	414.3
135°	120.8	142.8	213.8	336.1	388.4
137.5°	124.7	146.6	208.9	314.8	362.5
140°	127.7	150.2	204.3	295.0	336.7
142.5°	131.9	152.3	199.4	275.4	311.1
145°	136.5	155.2	198.7	258.2	287.4
147.5°	140.1	158.2	197.7	243.7	267.3
150°	144.7	160.7	196.2	232.3	249.2
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)